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**WORK HOUSES OF NEW ENGLAND, &c.**

SHORT & FORMAN LITH





1977.2

REPORTS  
OF  
THE DEPARTMENTS



Compliments of

R. R. HERRICK,

MAYOR.

ND

SE,

AND

INAUGURAL ADDRESS OF MAYOR R. R. HERRICK.

Published by Order of the City Council.

CLEVELAND, O.:  
WISEMAN & HARVEY, PRINTERS, 105 SENECA STREET.  
1879.



19772

**REPORTS**  
**OF**  
**THE DEPARTMENTS**  
**OF THE GOVERNMENT OF THE**  
**CITY OF CLEVELAND**  
**FOR THE**  
**YEAR ENDING DECEMBER 31, 1878,**  
**TOGETHER WITH**  
**THE ANNUAL MESSAGE OF MAYOR W. G. ROSE,**  
**AND**  
**INAUGURAL ADDRESS OF MAYOR R. R. HERRICK.**



Published by Order of the City Council.

**CLEVELAND, O.:**  
**WISEMAN & HARVEY, PRINTERS, 105 SENECA STREET.**  
**1879.**



CITY GOVERNMENT  
OF THE  
CITY OF CLEVELAND.

---

MAYOR,  
R. R. HERRICK.

CITY CLERK,  
W. H. ECKMAN.

CITY SOLICITOR,  
WILLIAM HEISLEY.

CITY AUDITOR,  
HENRY FORD.

CITY TREASURER,  
S. T. EVERETT.

CITY CIVIL ENGINEER,  
B. F. MORSE.

## TABLE OF CONTENTS.

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	PAGE.
<b>The City Council and Council Committees.....</b>	<b>5</b>
<b>The Departments ..</b>	<b>6-8</b>
<b>Annual Message of Mayor W. G. Rose.....</b>	<b>9-52</b>
<b>Inaugural Address of Mayor R. R. Herrick.....</b>	<b>53-60</b>
<b>Annual Report of the Board of Park Commissioners.....</b>	<b>63-66</b>
<b>Annual Report of the Board of Improvements.....</b>	<b>67-80</b>
<b>Annual Report of the City Civil Engineer.....</b>	<b>81-100</b>
<b>Annual Report of the Street Commissioner .....</b>	<b>101-124</b>
<b>Annual Report of the City Auditor.....</b>	<b>125-172</b>
<b>Annual Report of the City Treasurer.....</b>	<b>173-186</b>
<b>Annual Report of the Sinking Fund Commissioners .....</b>	<b>187-194</b>
<b>Annual Report of the City Clerk. . . . .</b>	<b>195-200</b>
<b>Annual Report of the City Solicitor .....</b>	<b>201-220</b>
<b>Annual Report of the Trustees of Water Works.....</b>	<b>221-314</b>
<b>Annual Report of the Police Commissioners.....</b>	<b>315-372</b>
<b>Annual Report of the Health Officer .....</b>	<b>373-418</b>
<b>Annual Report of the Clerk of Police Court.....</b>	<b>419-426</b>
<b>Annual Report of the Board of Fire Commissioners.....</b>	<b>427-474</b>
<b>Annual Report of the Directors of the Workhouse and House of Cor- rection.....</b>	<b>475-526</b>
<b>Annual Report of the Board of Infirmary Directors.....</b>	<b>527-548</b>
<b>Annual Report of the Board of Cemetery Trustees .....</b>	<b>549-564</b>

# THE CITY COUNCIL.

GEO. W. GARDNER, PRESIDENT.

N. A. GILBERT, PRESIDENT PRO-TEM.

W. H. ECKMAN, CLERK.

JNO. VANEK, 1ST ASS'T CLERK.

J. C. DELAMATER, 2D ASS'T CLERK.

FRANK HARRIS, PAGE.

Wards.	Names.	Elected.	Names.	Elect'd
1st ...	T. M. WARNER .....	1878	CHAS. BURNSIDE.....	1879
2d.....	GEO. W. GARDNER.....	1878	+DAVID MORISON. ....	1879
3d.....	GEO. W. SEGUR.....	1878	+C. C. SCHELLENTRAGER..	1879
4th...	EDGAR DECKER.....	1878	+P. M. SPENCER.....	1879
5th..	J. J. SMITH .....	1878	+THOS. REILLEY.....	1879
6th....	N. A. GILBERT.....	1878	J. B. GLENN.....	1879
7th....	ARTHUR DEVINE .....	1878	H. BOWLEY.....	1879
8th..	JOHN DARRAGH.....	1878	E. COWLEY.....	1879
9th....	H. M. TOWNSEND.....	1878	+FRANKLIN LEONARD...	1879
10th....	C. B. CLARK.....	1878	G. L. LUCE.....	1879
11th....	*C. H. SALISBURY.....	1879	MILTON A. GROSS.....	1879
12th..	*T. P. O'SHEA.....	1879	HENRY HOFFMAN. ....	1879
13th....	J. M. CURTISS.....	1878	THEO. F. BRANCH.....	1879
14th....	*FRANK BUETTNER.....	1879	T. G. CLEWELL.....	1879
15th....	J. W. GRIMSHAW.....	1878	A. A. AXTELL.....	1879
16th....	*ALBERT BARNITZ.....	1879	+A. K. SPENCER.....	1879
17th. .	A. H. STONE .....	1878	W. F. WALWORTH .....	1879
18th....	W. H. LUTTON.....	1878	W. H. LAMPRECHT.....	1879

\*Elected in 1879 to fill an unexpired Term,

+Re-elected.

## STANDING COMMITTEES.

APPROPRIATIONS.....	Warner, Branch, Leonard.
BATHING AND BATH HOUSES.....	Schellentrager, P. M. Spencer, Glenn.
BREAKWATER.....	Segur, Luce, Grimshaw.
CARRIAGES AND EXPRESS WAGONS.....	Devine, Morison, Salisbury.
CLAIMS.....	Morison, Clewell, Smith.
DEPARTMENT EXAMINATION.....	P. M. Spencer, Walworth, Warner.
ELECTIONS.....	Walworth, O'Shea, Lamprecht.
FINANCE.....	A. K. Spencer, Gilbert, Lamprecht.
FIRE AND WATER.....	Lutton, Morison, Devine.
HARBORS AND WHARVES..	Luce, Devine, O'Shea.
HOUSE OF CORRECTION.....	Clewell, Lutton, Schellentrager.
HEALTH AND CLEANLINESS.....	Leonard, Axtell, Glenn.
INFIRMARY.....	Townsend, Segur, Bowley.
JUDICIARY.....	Gilbert, Reilley, Branch.
LIGHTING.....	Stone, Warner, Hoffman.
MARKETS.....	Burnside, Leonard, Curtiss.
MILITARY AFFAIRS.....	Grimshaw, Gilbert, Barnitz.
ORDINANCES.....	Clark, A. K. Spencer, Buettner.
PARKS AND PUBLIC GROUNDS.....	Darragh, Salisbury, Clewell.
POLICE.....	Barnitz, Segur, Burnside.
PRINTING.....	Glenn, Smith, Decker.
PUBLIC BUILDINGS...	Axtell, Stone, P. M. Spencer.
PUBLIC OFFICES AND OFFICERS.....	Smith, Burnside, Bowley.
RAILROADS.....	Gross, Townsend, Darragh.
RULES.....	Reilley, Decker, Walworth.
SCHOOLS.....	Buettner, Barnitz, Gross.
STREETS.....	Curtiss, Stone, Axtell.
STREET RAILROADS.....	Lamprecht, Clark, A. K. Spencer.
VIADUCT AND CANAL LANDS.....	Hoffman, Cowley, Grimshaw.
WATER WORKS.....	Branch, Cowley, Buettner.
TAXES AND ASSESSMENTS .....	Decker, Schellentrager, Curtiss.

# DEPARTMENTS.

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## BOARD OF IMPROVEMENTS.

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HON. R. R. HERRICK, PRESIDENT EX-OFFICIO.

J. M. CURTISS,  
CHAIRMAN COM. ON STREETS.

W. H. HAYWARD,  
CITIZEN MEMBER.

B. F. MORSE,  
CIVIL ENGINEER.

FRANK RIELEY,  
STREET COMMISSIONER.

W. E. SHERWOOD, CLERK.

Regular Meetings on Monday and Friday, at 10 A. M.

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## POLICE.

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### Board of Commissioners.

HON. R. R. HERRICK, PRESIDENT EX-OFFICIO.

JOHN M. STERLING, JR.,  
LOUIS HAUSHEER,

GEORGE W. SHORT,  
JAMES R. SPRANKLE.

THOMAS KING, SECRETARY.

Regular Meetings of the Board on first and third Tuesday of each Month.

J. W. SCHMITT, SUPERINTENDENT.

JAS. McMAHON, SR. CAPTAIN.

H. HOEHN, JR. CAPTAIN.

H. HOLZWORTH, DETECTIVE CAPTAIN.

W. B. REZNER, HEALTH OFFICER.

PETER F. YOUNG, POLICE JUDGE.

A. H. LEWIS, PROSECUTOR.

WM. BAXTER, CLERK.

FRANK KARDA, ASST. CLERK.

CHAS. HALL, ASST. CLERK.



## **FIRE.**

### **Board of Commissioners.**

**W. H. RADCLIFFE, PRESIDENT.**

**W. H. LUTTON, CHAIRMAN COMMITTEE ON FIRE AND WATER.**

#### *Citizen Members:*

**GEO. GLOYD,**

**H. L. MELTON,**

**JOS. SLAGHT.**

**A. J. SPENCER, SECRETARY.**

**Regular Meetings of the Board on the second and third Thursdays of each Month, at 7:30 P. M.**

### **JOHN BENNETT, CHIEF.**

**JAS. DICKINSON,**

**H. H. REBBECK,**

**JOS. SPEDDY,**

**FIRST ASST. CHIEF.**

**SECOND ASST. CHIEF.**

**THIRD ASST. CHIEF.**

## **PARKS.**

### **Board of Commissioners.**

**DR. A. EVERETT, PRESIDENT.**

**J. H. WADE.**

**J. H. SARGENT.**

**W. H. ECKMAN, CLERK.**

**Board meets at the call of the President.**

## **WATER WORKS.**

### **Board of Trustees.**

**TRUMAN DUNHAM, PRESIDENT.**

**N. P. BOWLER**

**S. W. SESSIONS.**

**H. C. HAWKINS, SECRETARY.**

**JOHN A. WHITE LAW, SUPERINTENDENT AND ENGINEER.**

**Board meets on the fifth of each Month.**

## **WORKHOUSE AND HOUSE OF CORRECTION.**

### **Board of Directors.**

**HARVEY RICE, PRESIDENT.**

**J. H. WADE, VICE PRESIDENT.**

**S. C. BROOKS,**

**GEORGE H. BURT,**

**WILLIAM EDWARDS.**

**W. D. PATTERSON, SUPERINTENDENT.**

**JOHN A. MCINTOSH,**

**W. C. LOOMIS,**

**DEPUTY SUPT. WORKHOUSE.**

**DEPUTY SUPT. REFUGE DEPT.**

**MRS. MARGARET A. PATTERSON, MATRON.**

**Board meets on the first Tuesday of every Month, at 2:30 P. M.**

# INFIRMARY.

---

## Board of Directors.

JOHN GILL, PRESIDENT.

WILLIAM CUBBON.

J. C. BARTLETT.

JACOB BLUM, CLERK.

JAS. CHRISTIAN, SUPT.

THOS. ROME, STEWARD.

B. W. HOLLIDAY, PHYSICIAN.

MRS. THOS. ROME, MATRON.

Regular Meeting of Board first Tuesday of each Month.

---

## Cemetery Trustees.

E. H. THEIS, PRESIDENT.

G. A. HYDE, TREASURER.

L. W. BAILEY, SECRETARY.

JAS. PARKER.

Board meets first Monday in each Month.

JNO. E. COLE,

E. M. BISHOP,

SUPT. WOODLAND CEMETERY.

SUPT. ERIE ST. CEMETERY.

VALENTINE WORTH, SUPT. MONROE ST. CEMETERY.

JAS. MCGUFFY, SUPT. 18TH WARD CEMETERY.

---

## Sinking Fund Commissioners.

H. B. PAYNE,

L. CASE,

CHAS. HICKOX.

W. BINGHAM,

J. H. WADE.

---

## Board of Revision.

HON. R. R. HERRICK,

GEO. W. GARDNER,

WM. HEISLEY.

---

## Markets.

C. BECK, SUPERINTENDENT.

GEO. A. MCKAY, CITY SEALER.

---

## Harbors and Wharves.

CAPT. JOHN VARNER, HARBOR MASTER.

ANNUAL MESSAGE  
OF THE  
MAYOR  
TO  
THE CITY COUNCIL,

DELIVERED APRIL 21, 1879.

*Hon. W. G. ROSE, Mayor.*



INAUGURAL ADDRESS  
OF  
HON. R. R. HERRICK, Mayor.



## MAYOR'S ANNUAL MESSAGE.

---

GENTLEMEN OF THE COUNCIL:

This evening marks the close of a municipal term.

For the past two years the interests of the city have been committed to our care. Before surrendering these trusts, it is of the utmost importance that we satisfy the people who so generously confided in us, that we have not betrayed their confidence. The municipal transactions of 1877 were fully presented to you in my last annual message. Before entering upon the financial details of 1878, I deem it proper to call the attention of your Honorable Body to many causes for congratulation during the past year.

Our city has been unusually free from epidemic or contagious diseases. The death rate has been lower than in any year since 1874. No organized attempt has been made to disturb the public peace by riot or incendiarism, as in many other cities. The poor of our city, although many of them have been hard pressed, because unable to obtain steady work, have generally, on account of the marked decline in the cost of all the necessities of life, been able to support themselves and families by occasional employment.

The rapid, though deceptive, enhancement of values during the eleven years following the out-break of the civil war so stimulated trade and industry, that when the panic came the shock was so great that their recovery and growth will be necessarily slow. But our resources as a nation are

---

unlimited, and idleness cannot be long maintained in the face of an increasing foreign demand for the products of our soil, our mines and manufactories. Already there are many hopeful signs of a speedy return to better times; and we welcome them with feelings of profound gratitude to Him who in the time of our greatest need has mercifully blessed us with most bountiful harvests.

RATE OF TAX LEVY.

The following table shows the rate of tax levy for the operating expenses of the City Government for the past four years, the proceeds arising from said levies, and the Auditor's estimate of levy and proceeds for the year 1879 :

TABLE NO. I.

<i>Year.</i>	<i>Rate of Levy.</i>	<i>Proceeds of Levy.</i>
1875 . . . . .	12 16-20 . . . . .	\$908,977 15
1876 . . . . .	12 5-20 . . . . .	871,049 94
1877 . . . . .	11 5-20 . . . . .	802,747 91
1878 . . . . .	9 13-20 . . . . .	667,367 41
1879 . . . . .	9 315-1000 . . . . .	653,363 75

From this it will be seen that the rate of levy has been annually reduced, and that the proceeds for 1879 as estimated by the Auditor will be \$14,003.66 less than for 1878; \$149,383.16 less than for 1877, and \$217,686.19 less than for 1876. In other words, the operating expenses of the City Government have been reduced during the past two years about 25 per cent. The rates of levies and collections for sinking fund and interest on the public debt and for

school purposes are not included in the above table, as the last is under the control of the Board of Education, and the former cannot properly be classed among operating expenses.

## RECEIPTS AND DISBURSEMENTS.

An exhibit of the receipts and disbursements in 1878, for all purposes except for maintenance of public schools is presented in the following :

TABLE NO. 2.

<i>Name of Fund.</i>	<i>Receipts, Including Balance on Hand, Jan. 1st, 1878.</i>	<i>Disbursements.</i>	<i>Balance on Hand Jan. 1, 1879.</i>
Bridge Fund . . . . .	\$ 43,656 20	\$ 38,357 71	\$ 5,298 49
Dredging Fund . . . . .	103,147 27	97,390 41	5,756 86
Cemetery Fund . . . . .	2,167 42	1,914 78	252 64
Fire Departm't Fund . .	193,599 17	159,970 44	33,628 73
General Fund . . . . .	163,033 70	132,076 97	30,956 73
Gas Fund . . . . .	139,748 66	131,304 19	8,444 47
House of Correct'n Fund	138,788 17	132,813 88	5,974 29
Interest Fund . . . . .	498,756 56	417,237 24	81,519 32
Infirmary fund . . . . .	83,616 00	63,985 17	19,630 83
Market Fund . . . . .	134,324 21	108,219 43	26,104 78
Police Court Fund . . .	11,058 41	9,382 03	1,676 38
Park Fund . . . . .	16,773 41	6,643 07	10,130 34
Police Dep'tm't Fund . .	170,737 47	157,548 71	13,188 76
Sinking Fund . . . . .	172,392 23	160,000 00	12,392 23
Street Dep'tm't Fund . .	85,479 02	67,189 58	18,289 44
Total . . . . .	\$1,957,277 90	\$1,684,033 61	\$273,244 29

The total revenue of the City Government for 1878, as shown by the above, was \$1,957,277.90, and the disbursements, \$1,684,033.61, leaving a surplus of \$273,244.29, to apply on the expenses of the current year.

It also appears that each of these funds had a balance standing to its credit at the end of the year, a fact as unusual as it is satisfactory.

The following table, taken from the Auditor's report, shows the purpose for which the disbursements were made :

TABLE NO. 3.

	Ordinary Expenses.	Amount Paid for Work Done in Former Years.	New Buildings Lands and other Improve- ments.	Cost of Court, Judges and and Mis. Expenses.	Bills Con- tracted in 1877, and Paid in 1878.	Total Disburse- ments.
Bridge.....	\$ 23,790 61				\$ 14,567 10	\$ 38,357 71
Dredging.....	8,249 86	\$33,241 48		\$ 595 13	32,175 61	74,262 08
Fire Dep't....	146,714 94			1,470 70	11,784 80	159,970 44
General.....	116,470 51			8,883 31	6,723 15	132,076 97
Gas.....	105,690 04		\$ 3,235 66		22,378 49	131,304 19
House of Cor	108,455 21		5,400 11		10,058 56	132,813 88
Infirmary.....	40,197 29		1,491 45		9,284 89	59,973 63
Market.....	7,930 22			98,813 80	1,475 41	108,219 43
Police Court	8,600 90				775 13	9,382 03
Park.....	6,003 57		454 78		184 72	6,643 07
Police Dep't..	155,148 71				2,400 00	157,548 71
Street.....	47,234 49			16,186 55	3,768 54	67,189 58
Total .....	\$783,392 35	\$33,241 48	\$10,582 00	\$125,949 49	\$124,576 40	\$1,077,741 72

Add to this the following :

Interest Fund . . . . .	\$417,237 24
Sinking Fund . . . . .	160,000 00
Cemetery Disbursements . . . . .	1,914 78
Dredging Account Overdrawn . . . . .	23,128 33
Infirmary Account Overdrawn . . . . .	4,011 54

And we have the total disbursements as shown

by Table No. II . . . . . \$1,684,033 61

It will be noticed that of these disbursements, the sum of \$577,237.24, was used in payment of maturing bonds and interest on our public debt; and the sums of \$23,128.33 for dredging and \$4,011.54 for Infirmary, were in payment of accounts overdrawn in 1877 to make good the deficiencies of former years.

As shown in my last annual message, the overdrawing of the Infirmary Fund was caused by the payment from the operating expenses of 1877, on the construction account of



new buildings erected in 1876, and to pay \$5,000 bonds issued for same purposes in 1874; and in the matter of the Dredging Fund to pay certificates of indebtedness issued in 1872, '73 and '74, upon estimates for dredging done in those years, amounting to \$31,584.31.

It will also be noticed in Table No. II, that the disbursements for dredging in 1878, were \$97,390.41, and in Table No. III, that the whole cost for dredging done in 1878, was \$8,249.86, and that therefore the balance of the disbursements for 1878, amounting to \$89,140.55, was to pay for work done in former years.

The amount expended in 1878 to meet the obligations incurred in preceding years, is shown to have been \$900,641.26, and the ordinary operating expenses of the City Government, \$783,392.35.

A comparative statement of the operating expenses of the City Government for the past four years, as taken from the report of the City Auditor, is as follows:

TABLE NO. 4.

YEAR.	EXPENDITURES.
1875 . . . . .	\$887,078 26
1876 . . . . .	930,748 12
1877 . . . . .	888,488 29
1878 . . . . .	783,392 35

From which it will be seen that the operating expenses in 1878 have been reduced \$103,685.91 from that of 1875; \$147,355.77 from 1876, and \$105,095.94 from 1877.

## PUBLIC DEBT.

The general indebtedness of the city, outstanding January 1st, 1878, is shown by the following table, taken from

the Auditor's Annual Report, also the general bonds issued and amount paid during 1878:

TABLE NO. 5.

## GENERAL BONDS OUTSTANDING JANUARY 1st, 1878:

Water Works . . . . .	\$1,725,000
Funded Debt . . . . .	1,464,000
Infirmary . . . . .	60,000
Dredging . . . . .	51,000
Park . . . . .	315,000
Canal and Canal Locks . . . . .	264,000
Viaduct . . . . .	1,568,000
House of Correction . . . . .	200,000
School . . . . .	414,000
<hr/>	
Total . . . . .	\$6,061,000

## GENERAL BONDS ISSUED IN 1878:

Funded Debt . . . . .	\$178,000 00
Canal . . . . .	8,000 00
Viaduct . . . . .	567,000 00
Dredging . . . . .	55,000 00
<hr/>	
Total . . . . .	\$808,000 00

## GENERAL BONDS PAID IN 1878:

Water Works . . . . .	\$25,000 00
Funded Debt . . . . .	133,000 00
Infirmary . . . . .	6,000 00
Dredging . . . . .	6,000 00
House of Correction . . . . .	16,000 00
School . . . . .	5,000 00
<hr/>	
Total . . . . .	\$191,000 00

Total Increase in 1878 . . . . .	\$617,000 00
Total Outstanding January 1st, 1879 . . . . .	\$6,678,000 00

From this it appears that the general bonded indebtedness of the city was increased during the past year, \$617,000; but it will be seen hereafter that not one single bond of the \$808,000 issued in 1878, is chargeable to debts contracted by the present administration.

### SPECIAL INDEBTEDNESS.

The following table taken from the Auditor's Report, shows the amount of the special bonds outstanding at the beginning of 1878, also the amounts issued and paid during the year:

#### BONDS OUTSTANDING JANUARY 1st, 1878.

Street Opening Bonds . . .	\$1,010,463 35
Street Improvement Bonds, . . .	1,335,441 69
Sewer Bonds . . . . .	647,259 54
<hr/>	
Total . . . . .	\$2,993,164 58

#### BONDS ISSUED IN 1878:

Street Opening Bonds . . .	\$257,600 00
Street Improvement Bonds, . . .	49,038 16
Sewer Bonds . . . . .	6,900 00
<hr/>	
Total . . . . .	\$313,538 16

#### BONDS PAID IN 1878:

Street Opening Bonds . . .	\$201,256 31
Street Improvement Bonds . . .	399,513 01
Sewer Bonds . . . . .	99,392 70
<hr/>	
Total . . . . .	\$700,162 02

Special Debt Outstanding January 1st, 1879: \$2,606,100 00

From the foregoing table it will be seen that the special

indebtedness of the city has been diminished, during the year, by the amount of \$386,064.58.

Besides the bonds above named, there are two other forms of special indebtedness. One evidenced by certificates now outstanding, to a limited extent, issued to contractors, bearing interest and payable on the collection of the tax levied to pay for the improvements which they represent. There are now but \$17,798.99 of these certificates outstanding. In addition to these there were, as appears by the City Auditor's report, on the first of January, 1879, special improvement accounts overdrawn to the amount of \$237,937.85 That is, as explained in my message of last year, when special improvement bonds belonging to these various funds, have matured from year to year, instead of reissuing the bonds, money has been borrowed from all funds in credit for whatever purpose, to meet these maturing obligations.

The amount thus borrowed is a part of our special debt, and at the close of the fiscal year, it amounted to the sum above named.

Our total indebtedness, then, in all forms may be stated as follows:

General Bonds Outstanding . . . . .	\$6,678,000 00
Special Bonds Outstanding . . . . .	2,606,100 00
	<hr/>
Total . . . . .	\$9,284,100 00
Certificates of Indebtedness Outstanding	17,798 99
Temporary Loans from other Funds to meet Special Bonds, as indicated by Over- drawn Accounts . . . . .	237,937 85
	<hr/>
Total . . . . .	\$9,539,836 84

For the purpose of satisfying the taxpayers that none of the general or special bonds issued in 1878, were on account of indebtedness incurred in that year, I deem it proper to refer to the annexed statement of Auditor Ford, submitted to your Honorable Body, under date of February 3d, 1879.

*Statement of all Bonds Issued by the City of Cleveland in 1878, Showing for what Purpose, and the Proceeds of Sale.*

FOR WHAT PURPOSES.		Improvements Authorized.	Amount of Issue in 1878.	Proceeds of Sale.
For Street Damages.				
Allen Street Opening . . . . .	1872	\$ 4,700 00	\$ 4,853 69	
Bond Street Opening . . . . .	1873	35,000 00	36,144 50	
Bailey Street Opening . . . . .	1873	1,000 00	1,032 70	
Central Place Opening . . . . .	1872	15,500 00	16,006 85	
Courtland Street Straightening , . . . .	1873	1,800 00	1,858 86	
Columbus, Pearl and Walworth Run Im- provements . . . . .	1869	33,400 00	34,492 18	
East Prospect Street Opening . . . . .	1872	4,500 00	4,647 15	
Grand Avenue Damages . . . . .	1875	1,200 00	1,200 00	
Giddings Avenue Opening . . . . .	1872	1,300 00	1,342 51	
Harvard Street Damages . . . . .	1876	1,600 00	1,652 32	
Lincoln Avenue Damages . . . . .	1874	4,100 00	4,234 07	
March Street Extending . . . . .	1873	3,500 00	3,614 45	
Miles Street Damages . . . . .	1875	300 00	300 00	
Payne Avenue Opening . . . . .	1874	89,600 00	92,529 92	
Russell Avenue Opening . . . . .	1873	7,600 00	7,848 52	
Seneca Street Opening , . . . .	'72-'75	6,000 00	6,196 20	
St. Clair Street Widening . . . . .	1874	28,300 00	29,225 41	
Summit Street Opening . . . . .	1872	6,300 00	6,506 01	
Slater Street Opening . . . . .	1873	9,100 00	9,397 57	
Woodland Hills Avenue Damages . . . .	1876	2,800 00	2,891 56	
Total Street Damages . . . . .		\$257,600 00	\$265,974 47	

<i>Street Improvements.</i>	<i>Year.</i>	<i>Amount of Issue in 1878.</i>	<i>Proceeds of Sale.</i>
Atlantic Street, Culvert . . . . .	1875	\$ 1,000 00	\$ 1,032 70
Broadway Paving—Union to Miles .	1874	19,000 00	19,621 30
Broadway Paving—Independence to Union . . . . .	1872	2,500 00	2,581 75
Beckwith Street, Grading . . . . .	1875	1,200 00	1,239 24
Chestnut Ridge, Grading . . . . .	1874	4,600 00	4,750 42
Euclid Avenue Paving—West of Erie	1872	5,000 00	5,163 50
Lincoln Avenue Culvert . . . . .	1875	4,500 00	4,647 15
Seneca Street Paving . . . . .	1875	4,000 00	4,130 80
St. Clair Street Paving . . . . .	1871	7,238 16	7,238 16
Total Street Improvement . . . . .		\$49,038 16	\$50,405 02
<i>Sewers.</i>			
Broadway Sewer . . . . .	1875	\$ 2,300 00	\$ 2,375 71
St. Clair Street Sewer . . . . .	1876	4,600 00	4,750 42
Total Sewer . . . . .		\$ 6,900 00	\$ 7,126 13
<i>General.</i>			
	<i>Prior to</i>		
Funded Debt . . . . .	1874	\$ 178,000 00	\$ 185,814 20
Cuyahoga River Dredging . . . . .	1876	55,000 00	55,327 60
Canal . . . . .	72-76	8,000 00	8,311 76
Viaduct . . . . .	72-79	567,000 00	578,397 99
Total General . . . . .		808,000 00	\$ 827,851 55
<i>Aggregate.</i>		\$1,121,538 16	\$1,151,357 17

The \$178,000 of Funded Debt Bonds were issued, and the proceeds of sale, including accrued interest and premium, amounting to \$186,573.67, were applied to make good the deficits in the following funds, to wit:

Street Intersection Fund . . . . .	\$88,484 22
Special Road Fund . . . . .	59,048 96
Steam Road Roller Fund . . . . .	3,417 09
Nicholson Pavement Royalty Fund . . . .	34,863 93
Interest Fund . . . . .	759 47
<hr/>	
Total . . . . .	\$186,573 67

These overdrafts have been of long standing, some of them reaching as far back as 1870, and are the fruits of the pernicious system of charging expenditures to funds having no credit, as explained in my last annual message.

The \$8,000 Canal Bonds were issued in pursuance of an Act of the General Assembly, of April 29th, 1872, requiring the city to make certain improvements in order to obtain title to the canal bed. The \$567,000 of Viaduct Bonds were issued in pursuance of the Supplemental Viaduct Act of April 1876. These are matters in which the present administration had no alternative except to complete the work commenced by our predecessors.

The dredging for which the \$55,000 of bonds were issued was done several years ago, and the original bonds having fallen due without money in the Treasury to pay them, it became absolutely necessary to extend the time of payment by a re-issue.

So much for the general bonds issued in 1878, and as for the special bonds, the report of the Auditor shows that they were issued to extend the time of payment of other bonds issued for the same purpose, at the dates and for the improvements specified in his statement. The collection of

the taxes upon which the city relied for payment of these bonds had been delayed by injunction suits pending in the various Courts, and for this, and other causes, the city, having no funds in hand with which to meet these maturing obligations, had no choice but to re-issue a like amount.

It is clearly shown by this, that the whole amount of bonds, to wit: \$808,000 general, and \$313,538.16 special, aggregating \$1,121,538.16 issued in 1878, and in 1879 to this date, were solely on account of improvements, general and special, authorized during a series of years from 1869 to 1876 inclusive.

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### CITY BONDS.

In my last annual address, I called attention to the fact that prior to the commencement of this administration, the bonds of the city had been sold in the eastern markets by the personal efforts of the City Treasurer; and that during 1877, the Finance Committee of the City Council had adopted the plan of advertising and receiving open bids for the purchase of them. I then remarked that the success attending the first sales justified the Finance Committee in making additional experiments in the new method, and recommended that it be continued until it should be established beyond question that better prices could be obtained by private sale. Since then the General Assembly of our State, influenced somewhat, probably, by the good results manifested in the case of the City of Cleveland, has passed a law which requires all cities in the State to pursue the same course in the sale of their bonds, and prohibits their negotiation at private sale. I desire simply to add, that all sales of our bonds made during the past year have brought premiums varying from five-sixteenths of one per cent. to



four and thirty-nine-hundredths per cent., which proves the wisdom of our Finance Committee in primarily adopting this method and of the Legislature in requiring it for the future.

### SINKING FUND.

The Fund Commissioners, in their annual reports for 1878, show the same successful management as in former years. The net income for 1878 was \$117,625.08.

The following items constituted the Sinking Fund January 1st, 1879 :

7,000 Shares stock L. S. & M. S. R. R. Co., par value . . . . .	\$700,000 00
2,000 Shares stock N. Y. C. & H. R. R. Co., par value . . . . .	200,000 00
L. S. & M. S. R. R. Co. 7 per cent. Bonds, par value . . . . .	345,000 00
C. & N. W. R. R. Co. 7 per cent. Gold Bonds, par value . . . . .	250,000 00
Jamestown & Franklin R. R. Co. 7 per cent. Bonds, par value . . . . .	30,000 00
Cincinnati & Indianapolis R. R. Co. 7 per cent. Bonds, par value . . . . .	25,000 00
Cleveland City Water Works 7 per cent. Bonds, par value . . . . .	300,000 00
Cleveland City Water Works 6 per cent. Bonds, par value . . . . .	12,500 00
Cleveland City House of Correction 7 per cent. Bonds, par value . . . . .	40,000 00
Cash on Deposit . . . . .	190 53
Total . . . . .	<u>\$1,902,690 53</u>
Less Bills Payable . . . . .	<u>86,000 00</u>
Balance . . . . .	\$1,816,690 53

On the first day of January, 1878, the par value of the securities which constitute our Sinking Fund was \$2,109,357.21.

The history of the Sinking Fund has been given so often that you are doubtless familiar with it, and I should not tax your time further on this subject but for the fact that recently the question has been raised, and discussed with much warmth in the Council and through the public press, "what shall be done with the unpledged surplus of the Sinking Fund?" I desire simply to call your attention to a few facts and figures which show the results and indicate the possibilities of this Fund, for the purpose of impressing upon your minds how important a factor it has been, and should still be, in our fiscal affairs. In the elaborate and excellent history of the Fund contained in the Annual Report of City Auditor Thomas Jones, Jr., January 1, 1876, is to be found the following statement:

THE SINKING FUND—1863 to 1876.

January 1, 1863, Total Cash and Assets,			\$332,059 07
" 1, 1864,	"	"	422,203 36
" 1, 1865,	"	"	470,858 91
" 1, 1866,	"	"	569,143 59
" 1, 1867,	"	"	597,272 73
" 1, 1868,	"	"	933,923 78
" 1, 1869,	"	"	1,008,838 59
" 1, 1870,	"	"	1,146,100 68
" 1, 1871,	"	"	1,209,860 93
" 1, 1872,	"	"	1,311,550 79
" 1, 1873,	"	"	1,551,106 41
" 1, 1874,	"	"	1,688,793 79
" 1, 1875,	"	"	1,761,543 44
" 1, 1876,	"	"	1,863,736 41

That is, in thirteen years, without one dollar addition from tax levy or other kindred sources, it earned for the City \$1,531,677, an annual average of \$117,821. From an January 1, 1876, to January 1, 1879, the results of its manage-

ment furnish still more practical illustrations of its great importance to the taxpayers of Cleveland. In these three years it has paid \$425,000 of our public debt, and this, too, without perceptibly impairing its earning power; its par value being nearly the same at the end of three years—after this large payment—as at the beginning, January 1, 1876.

The simple statement of the foregoing facts, it seems to me, should answer the question as to the future disposition of this surplus.

The general bonded indebtedness of the City to-day is \$6,678,000. Here is a resource, which, if left in the hands of the Commissioners, without a cent of tax levy to maintain it, can be made to cancel, every three years, over four hundred thousand dollars of this indebtedness. It has been claimed that, under the compact of union with Ohio City, the remainder of this Fund, after paying the amounts pledged to the Water Works debt, should be divided among the original seven wards for the purchase of parks or such other kindred luxuries as might seem to them desirable.

It is not my purpose to discuss the legality of this claim. If, however, by the terms of annexation, the power is vested in the trustees of the original seven wards to dispose of this surplus fund, I desire to urge upon them, most earnestly, that it be applied to the payment of our general bonded debt, and to no other purpose whatever. The diversion of this Fund to any other purpose would be equivalent to adding \$1,500,000 to our present indebtedness, and the taxpayers of the original seven wards would be compelled to pay their proportion of the same. It would be unjust to those living in the territory not a party to the compact of annexation.

About three-fourths of the territory now embraced in our corporate limits has been annexed since Ohio City became

a part of Cleveland. The more recently added wards help to pay all our debts, whether contracted for improvements in the original seven wards before they became a part of the city or since; and in equity they are entitled to their pro rata share of all our assets.

It also appears from Auditor Jones' report that the whole amount of taxes levied on the original seven wards for the maintenance of this fund was \$61,993.59, of which \$24,000 were levied and collected prior to annexation and \$37,193.59 since. And just here it occurs to me to suggest that the original seven wards have already received what they should in equity accept as an equivalent for their claim to the exclusive right in the surplus of this fund. Since 1872 the city has purchased land for park purposes, in this original territory, amounting to \$234,579.32; and if we add to this the cost of improving the same, during this period, to wit: \$160,811.23, it will aggregate \$395,390.55.

The whole city, including the new territory and all, is now taxed to pay the interest on bonds issued for this purpose. The principal of this debt will be paid at maturity by a tax on all the property of the city.

These sinking fund securities have been quoted by all the Mayors and City Auditors for the past sixteen years as part of our assets. The inhabitants of all the territory annexed, since the union with Ohio City, consented to become incorporated with the understanding that these assets were to be applied to the payment of our general bonded debt. Our bonds have been sold for years in the eastern market at a premium, on the strength of these statements. When this is fully understood, I am convinced that nine-tenths of the property owners in the territory most interested, would concur in this opinion.

### VIADUCT SINKING FUND.

That portion of the Supplemental Viaduct Act, passed April 6th, 1876, providing for the creation of a Sinking Fund to pay the principal of the Viaduct bonds at maturity was found to be defective, and on May 13th, 1878, an amendatory act was passed curing these defects, and providing for the levy and collection of an annual tax for this purpose, "not exceeding two mills upon the general tax duplicate." The tax levied the past year in pursuance of this act was 700-1000 mills, and the proceeds were \$49,238.03.

This method of paying for municipal indebtedness is so light that when extended over many years it is scarcely perceptible to tax payers. But an annual levy equal to that of last year, will not be sufficient to meet these obligations at maturity; and therefore I recommend such increase as is indicated in my last annual message. A recent ordinance introduced by Mr. A. K. Spencer and passed by your Honorable Body, places this fund in the hands of the present Sinking Fund Commissioners. The past record of these gentlemen proves the wisdom of the measure.

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### PUBLIC IMPROVEMENTS.

There are now no extensive improvements, either in progress or under contract, and so long as the Burns Law remains in force as it is now, none can be begun until the money to pay for the same is in the City Treasury. Detailed accounts of all public works prosecuted during the year are to be found in the annual reports of the Board of Improvements, and City Civil Engineer. From the latter report I extract the following statement of the cost and character of the work for 1878:

Cost of work on Viaduct . . . . .	\$444,894 77
Cost of work on Canal and Lock : . . . .	1,873 13
Cost of Improving Streets . . . . .	17,247 91
Cost of Building Sewers . . . . .	13,557 90
Cost of Dredging Cuyahoga River . . . .	8,249 86
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Total . . . . .	\$489,379 77

The cost of the Viaduct to date is about \$2,125,000, and we are assured by the Engineer, that when completed, the entire cost will not exceed the estimate of \$2,200,000 made when the last appropriation was obtained for this structure.

With regard to the lawsuit instituted a short time since against the city, by Mr. Charles Ensign, Executor of E. W. Ensign, contractor for the mason work of the Viaduct, a statement of the facts pertaining thereto is found in the communication of Mr. B. F. Morse, City Civil Engineer, recently submitted to your Honorable Body, from which it appears that the claims of the plaintiff are wholly without foundation.

There is probably no official in the City Government upon whom rests greater responsibility than the City Civil Engineer; as he has the supervision of all public improvements. It affords me pleasure to say that Mr. Morse has proved himself to be "the right man in the right place." Justice however, requires me to add that Mr. Morse had the sagacity to call to his aid competent assistants in the persons of Messrs. Rawson, Walters and others.

### STREET DEPARTMENT.

There has been a decided change for the better in this department during the last two years.

With no perceptible diminution in efficiency, its expenditures have been cut down from something over \$105,000 for

eleven months in 1876, to \$47,234.49 for the entire year, 1878.

The department has been operated during the past fifteen months under what is known as the "Contract System," by which the work of cleaning the streets, avenues, alleys, market-spaces and catch-basins is let to the lowest bidder.

This new method seems to have no defects which cannot be cured by experience. It is certainly preferable to the old system, as the results show it is much more economical and equally effective.

The election of Mr. Jacob Bittel to this responsible position for four terms, is abundant proof of the confidence the people of Cleveland reposed in him as a public officer.

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### LAW DEPARTMENT.

The Annual Report of the City Solicitor shows that there were pending in the various courts on the first day of January, 1879, 103 cases seeking to restrain the collection of special assessments amounting to \$1,500,000. A large number of these cases have already been passed upon by the Court of Common Pleas or District Court, and decided against the city, restraining the collection of taxes, amounting as per the Auditor's report to the sum of \$775,798.95. These injunctions will be permanent, unless dissolved by the Supreme Court.

The taxpayers of Cleveland should understand that the taxes which the city seeks to collect in these litigated cases were levied and assessed to pay for the opening of Payne and Willson Avenues, Bond, Seneca, Orange, Sheriff and Slater Streets, and for the paving of Broadway, Kinsman and other streets, all of which improvements many of the property owners specially benefited pertinaciously "lobbied" through the Council and Board of Improvements.

The city loaned her credit, or in other words, issued her bonds to pay for these improvements, trusting to the subsequent levy and collection of a tax on the property specially benefited for re-imbursement. To further lighten the burden of the taxpayers thus accommodated, the assessments were made in installments running from one to five years. The city acted in good faith, and these special taxes thus became in equity and justice a lien on the property specially benefited. But after securing these improvements at the expense of the city, by the most urgent solicitation, they now seek by legal technicalities to shift the burden of the debt on the shoulders of innocent parties who are in no wise benefited thereby. Every injunction suit pending in the courts is only an effort by the parties interested to transfer the lien of these assessments from their own property to that of all the taxpayers within the corporate limits of the city. If they succeed and these injunctions should be made permanent, the cottages of the poor, even in the most remote portions of the city, will be taxed to pay for the opening of Payne Avenue and the paving of Kinsman, Broadway and other streets; and the rich land owners, whose property is specially benefited, will reap the profit in the enhanced value of their land, and the reduction of their taxes at the expense of those who earn their bread by the sweat of toil.

To say nothing of the legal questions involved, if there is any moral logic which will prove that laboring men, owning cottages miles away from the site of the improvements, should help pay for the same, it must be under some new code framed in the interests of municipal taxpayers, who seek to improve their own property at the expense of others.

The constant care and labor required in the preparation and trial of these cases, together with the multitude of other



suits which are brought against the city and the decision of questions of law almost daily arising in the administration of municipal affairs rank the Law Department as one of the most important and responsible in the City Government.

In taking leave of this department it is but justice to say that Solicitor Heisley and his able assistants, Messrs. Weh and Wallace, although differing with me in politics, have uniformly treated me with the utmost kindness and in all their decisions of questions of law have never been swerved by partisan bias.

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### POLICE AND HEALTH DEPARTMENTS.

The very best evidence of the economical management of these departments, and the efficiency of the officers and men composing the force, including the Detective Service, are to be found in the facts and figures contained in the annual report of the Secretary of the Board of Police Commissioners.

From this it is shown that the cost of these departments for 1878 was \$157,548.71, leaving a balance of \$13,061.65 to carry over to 1879. This is a decrease in the expenditure for 1878 of \$6,016.73 from 1877; \$11,127.14 from 1876, and \$30,351.35 from 1875.

The increased efficiency of the regular force, notwithstanding this reduction, is shown by the following facts, to wit:

The amount of property stolen, estimated according to its value, was less than in any year since 1873; and the amount recovered, being  $80\frac{33}{100}$  per cent. of the valuation, is greater than in any other year during that time.

The number of arrests made during the year was 7,151; the number sent to the Work House 1,005; and the amount of fines and costs collected \$19,448.11.

The effectiveness of the force will be better appreciated when it is understood that the number of men to the square mile in New York is 111; Philadelphia, 19; Chicago, 13; Brooklyn, 29; St. Louis, 19; Boston, 45; Baltimore, 39; New Orleans, 21; Washington, 9, and Cleveland, 5.

If anything further is required to show the superior excellence of the Police force of Cleveland, it is only necessary to state that the cost per capita of population in New York is \$3.27; Philadelphia, \$1.74; Chicago, \$1.07; Brooklyn, \$1.60; St. Louis, \$1.11; Boston, \$2.17; Baltimore, \$1.90; New Orleans, \$2.97; Washington, \$2.70; Cleveland, \$1.00; which is less than any other city in the Union.

So far as the Health Department is concerned, the following comparative tables for the past six years, furnished me by Secretary Bailey, speak for themselves:

COST OF HEALTH DEPARTMENT FOR THE PAST SIX YEARS.

YEAR.	AMOUNT.	TOTAL.
1873 . . . . .	\$23,416 14 )	\$48,452 72
1874 . . . . .	25,036 58 ( . . . . .	
1875 . . . . .	19,549 38 )	
1876 . . . . .	16,168 05 ( . . . . .	35,717 43
1877 . . . . .	14,106 11 )	26,520 29
1878 . . . . .	12,414 18 ( . . . . .	

Decrease in expenses of running this department for the last two years over the two years preceding, \$9,197.14; decrease in 1878 over 1877, \$1,691.93.

DEATH RATE PER 1,000 FOR THE PAST SIX YEARS.

YEAR	RATE.
1873 . . . . .	19.20
1874 . . . . .	16.07
1875 . . . . .	18.28
1876 . . . . .	19.90
1877 . . . . .	17.91
1878 . . . . .	16.72

It will be seen that last year the rate was lower than in any year during the six, except in 1874, when it cost more than double the amount expended last year to keep the City in a good sanitary condition.

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### FIRE DEPARTMENT.

The Fire Department continues to be managed with ability and economy. The operating expenses for the year were \$144,034.56, being less than for any year since 1873, taking into consideration the increased number of engine houses and apparatus. The number of alarms responded to were 247; the loss of property amounted to \$207,836.95, more than one-half of which was occasioned by two fires, wherein the buildings and contents consumed or destroyed were of a very inflammable nature. Aside from these two fires, from which the losses were \$87,200 and \$29,180, respectively, the average loss per fire was \$373.30.

This Department has received and merits great praise for its efficiency.

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### WATER WORKS.

The Annual Reports of the Trustees, Superintendent and Secretary of Water Works, are very complete and satisfactory. They show the present very prosperous condition of this Department and give detailed statements of its financial transactions during the past year. It appears from the report of the Secretary, that the receipts for water, including permits, during 1878 amounted to \$160,125.70, and the operating expenses, \$53,028.27, leaving a surplus of earnings over the running expenses, of \$107,097.43. The entire re-

ceipts and disbursements of the Department for 1878 may be stated briefly as follows, to wit:

Cash on hand January 1st, 1878: . . . .	\$55,562 34
For Water, including Permits . . . .	160,125 70
For Street Sprinkling and all other sources	5,993 58

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Total Receipts for the year . . . .	\$221,681 62
Deduct from this Operating Expenses . . . .	53,028 27
Leaving a Total Surplus Fund of . . . .	\$168,653 35

Out of this fund were paid during the year for permanent Improvements, etc., the following, to wit:

For Pipe Extension . . . . .	\$27,257 58
For Lake Crib Superstructure . . . . .	43,153 21
For New Boilers and setting same . . . . .	18,838 37
For Water Meters . . . . .	1,729 56
For Final payment on Engine and Interest . . . . .	10,163 37
For Payment of Interest on Water Works Bonds . . . . .	35,000 00

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Total . . . . .	\$136,142 09
Cash on hand January 1st, 1879 . . . . .	32,511 26

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\$168,653 35

It will be observed that notwithstanding the extraordinary out-lay required during 1878, to repair the damages done to the Lake Crib by the severe storms of July and September last, the receipts of the Department were adequate to meet all demands for protection in this emergency, pay \$35,000 of interest on the Water Works Bonds, and still show a comfortable balance at the end of the year of \$32,511.26. This certainly speaks well for the faithful and economical management of the Department. According to the Secretary's estimate the receipts for water for 1879

will amount to \$165,000 and the ordinary expenses and repairs will not exceed \$55,000.

If this is correct, the surplus earnings at the end of the current year will amount to \$110,000; which, with the \$32,511.26 cash on hand at the beginning of the year, will aggregate the sum of \$142,511.26, every dollar of which, not actually needed for the permanent protection of the Lake Crib and for pipe extension, should be applied in payment of the interest annually maturing on the Water Works Bonds.

During the year there was paid from the Sinking Fund \$425,000 of matured Water Works Bonds, leaving the whole amount now outstanding at \$1,300,000. Of this sum all that mature on or before January 1st, 1884, aggregating \$500,000, will be paid out of the Sinking Fund as now provided for by law; but no provision has been made for the payment of Water Works Bonds maturing after that date, amounting to \$800,000, and coming due as follows: \$400,000 May 1st, 1892; \$200,000 May 1st, 1893, and \$200,000 October 1st, 1895. If the present successful management should continue, there is no question but that this Department will be able, not only to take care of the principal and interest of all Water Works Bonds maturing after January 1st, 1884, and in the meantime, contribute largely towards paying the interest on this class of bonds maturing prior to that date, besides furnishing water privileges ample for the accommodation of all our citizens and the protection of public and private property.

The Board of Trustees of Water Works, in their report relating to the disaster which befell the Lake Crib during the past year, states:

“ We are in question, as yet, whether fault can be attached to any one on account of damages accruing to this structure at the time of the storm referred to, but have the matter

fully under advisement and trust at an early day to be able to report to your Honorable Body, a full statement of all the facts and conclusions arrived at. This we propose to do as early as the season will permit of a thorough examination by experts."

### INFIRMARY DEPARTMENT.

According to the report of the Infirmary Department  
the number of applicants relieved during 1877

was . . . . . 2,825

Number of applicants relieved during 1878 was . . 1,894

Showing a decrease of . . . . . 931

This falling off in the number securing relief may be accounted for in several ways. There may have been more relief granted by outside persons and associations, or the Infirmary Department may have been more searching in its investigations, or the applicants may have been unwilling to comply with the rules of the institution, which require able bodied persons to do an amount of work proportionate to the groceries or fuel furnished them. This last is probably the most potent reason, for we are informed by the report of Jacob Bluim, Clerk of the Infirmary Board, that "the total number of orders issued for work to the applicants for out-door relief was 835. The orders called for one, two or three days work. Of this number 282 were returned signed by the Steward of the Infirmary, which certified that the applicants had worked as required by the order."

Thus it will be seen that 552 of the applicants for out-door relief—nearly two-thirds of the whole number—refused to accept relief on the terms proposed. As a general rule, these are the professional mendicants who are supported in idleness by the open-handed, but ill-directed charity of the generous public.

To the present Board of Directors we are indebted for this work policy, which, as suggested in their report, "furnishes an infallible method of discriminating between the worthy and unworthy." It has decided advantages over the old form. It is more economical, as it makes imposition difficult, and by allowing the recipient to render an equivalent for what he receives, it does not require that sacrifice of dignity and self-respect which results from all systems of indiscriminate alms-giving. The Board of Directors in their report ask that they may be allowed to utilize the now unoccupied apartments in the building, in which the Infirmary offices are located, by arranging them for the manufacture of oakum, and the employment of those applicants who are physically unable to endure hard labor. I trust the proposition will meet your approval and that you will render them such assistance as may be required to carry out their plans in this particular.

I also endorse their recommendation for the passage of a law making it a penal offence to obtain goods or money from the Infirmary by false pretences, and request your Honorable Body to aid them in obtaining the necessary legislation to this end.

The Clerk of the Board of Infirmary Directors has kindly furnished me with the following comparative statement of the cost of conducting this Department for the past four years.

<i>Year.</i>	<i>Infirmary.</i>	<i>Out Door Relief.</i>	<i>Improvements</i>	<i>Bonded Debt.</i>	<i>Total.</i>
1875	\$16,129 15	\$60,127 06	. . . . .	\$ 5,700 00	\$81,256 21
1876	16,755 00	67,045 88	\$46,112 40	5,350 00 Paid overdr'n in 1876.	135,263 28
1877	15,460 05	39,113 98	28,887 60	23,430 81	104,892 44
1878	16,514 37	32,356 37	1,491 45	. . . . .	50,688 24

Thus it will be seen that the expenditures for 1878 were reduced to less than one-half of those for 1876 and 1877, and about \$21,000 less than those of 1875. This accounts for the handsome balance of \$19,630.83 standing to its credit at the end of the year, and indicates careful and judicious management.

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### WORKHOUSE AND HOUSE OF REFUGE AND CORRECTION.

The financial and statistical exhibits contained in the Annual Reports of the Directors and Superintendent of the Workhouse and House of Correction, are entitled to more than a passing notice. They show by facts and figures that these institutions have been managed with the same prudence and economy during 1878 as in former years, and with better results. The high character and well known business qualifications of the gentlemen composing the Board of Directors are the surest guaranty that so long as these important trusts are committed to their care they will be administered with ability and fidelity.

They devote a large portion of their time without compensation for the success and advancement of the interests in their charge; and they certainly deserve and will receive the thanks and hearty approval of all good citizens. Mr. W. D. Patterson was chosen Superintendent, and his estimable wife, Matron, on account of their long experience in the training and care of the unfortunate, and the correction of criminals. Their duties are arduous, and often difficult to perform; but their rare good judgment, patience and business tact have been equal to every emergency, and contributed largely to place the Cleveland Workhouse and House of Refuge in the front rank of penal and reformatory institutions.



The number of convicts remaining in the Workhouse

January 1st, 1878, was . . . . .	334
Whole number committed during the year . . . . .	975
<hr/>	
Total . . . . .	1,309
Discharged during 1878 . . . . .	1,038
<hr/>	

Number remaining January 1st, 1879 . . . . . 271

The average number supported during the year 1878 was 261, being forty less than the average for 1877. The actual cost to the city for maintaining both Departments for the year 1878, exclusive of improvements, was \$3,892.96, as against \$5,846.71 for 1877, being less for 1878 than in 1877 by \$1,953.75.

The Refuge Department during 1878 was not only self-supporting, but contributed in net gains \$204.46 towards the support of the Workhouse branch. The following table prepared by Superintendent Patterson, shows the actual cost to the city for the maintenance of the Workhouse and House of Refuge, exclusive of permanent improvements, from the date of their establishment to January 1st, 1879 :

1871, Net Cost . . . . .	\$16,679	33
1872, " . . . . .	28,523	18
1873, " . . . . .	42,962	46
1874, " . . . . .	36,952	63
1875, " . . . . .	21,460	43
1876, " . . . . .	15,824	75
1877, " . . . . .	5,846	71
1878, " . . . . .	3,892	96

There is one matter of vital concern to the welfare of these institutions, which, it occurs to me, deserves special mention.

The Board of Directors, in their Annual Reports for 1875 and 1876, recommended the purchase of grounds apart

from the Workhouse, and the erection of buildings thereon for the exclusive use of the children in the House of Refuge. The present Report asks for the erection of an additional building on the Workhouse grounds, for the accommodation of the girls in the Refuge Department. They have been moved to make this suggestion, no doubt, from motives of economy; but it seems to me that the reasons which can be offered in support of the former recommendations are so numerous and forcible that they cannot but commend themselves to every candid mind.

All those confined in the House of Refuge are children under sixteen years of age. Some of them are there for incorrigible conduct; but a large proportion are those who have been removed from wretched and polluted homes on account of the degradation and moral depravity of their parents, and who are charged with no crime. Our duty does not end when we have seen them fed and clothed and protected from the storm, but demands that we do what we can to help them lead good and useful lives. The tender buds of virtue and truthfulness which cluster around the heart of a child will bloom like flowers when nurtured and surrounded by the influences of the good, but may wither and decay from contact with the low and vicious. Nothing but evil can result from thus bringing these innocent boys and girls into such close proximity to criminals.

Aside from this direct mischief, there is another, equally unfortunate and far reaching in its consequences. I refer to the stigma of having spent their youth in a workhouse, which will rest upon and embarrass these children in after life. We will certainly fall short of the obligations resting upon us if we longer persist in sending them out into the world with this odium resting upon them. When they grow up to manhood and womanhood they may display the highest order of intellect and may be actuated by the noblest

and most generous impulses, yet the dark page in their history which tells of their connection with a workhouse, will tend to deprive them of the esteem of their fellows and in many instances will prove an obstacle in the way of their preferment. We should send them out from our care with no taint upon them and no check to their ambition. Give them a suburban home removed from the contaminating influence of criminals, and from the din and smoke of the city. Erect buildings substantial and commodious, yet free from useless ornamentation. Let these buildings be surrounded by a few broad acres, where these wards of the city can grow up in purity as well as in strength and stature; and where, in place of the monotony of prison life, they can at times enjoy the chief delights of childhood—freedom, sunlight and pure air. Give them a good discipline of mind and morals, and it cannot but prove a great aid to their advancement, and a consequent gain to society.

The present seems a very opportune time to provide for this much needed improvement. It is conceded that real estate, building material and mechanical labor have now reached their lowest price. Your Honorable Body at one time took action in this direction, but under the operation of the Burns law nothing could be accomplished, because there were no funds for that purpose in the treasury. This plan having been twice suggested by the Board of Workhouse Directors and endorsed by my predecessor, Mayor Payne, I would respectfully recommend that immediate steps be taken by the Council to secure the legislation necessary for its execution.

## THE PUBLIC SCHOOLS.

By the courtesy of Dr. D. B. Smith, President of the Board of Education, I have been furnished the following school statistics for the year 1878:

Total enumeration within school age . . . . .	49,118
Total number in public schools . . . . .	22,104
Total number in church schools . . . . .	8,944
Total number in private schools . . . . .	1,437

From which it appears that while there are in all the schools of the city 32,485 children, 16,633 do not attend any school. Of this large army of children who do not avail themselves of educational advantages, very many may be seen daily in the streets of the city learning vice and contracting evil habits. The best condition of society, religious, social and civil, cannot be attained unless the mental and moral training afforded by the school-room reaches every child at the proper age. It is therefore the duty of all good citizens to unite their influence to secure this training to every one. In a government "of the people, for the people, and by the people," it is indispensable that the youth of the land pass through a preparatory course of instruction to fit them for citizenship. The fact that 16,633 of the youth of Cleveland are not attending either public, church or private schools, is proof that either the compulsory statutes of Ohio are not sufficiently explicit in their requirements, or that they are not enforced.

The fiscal transactions of the public schools of the city for the year 1878 are represented by the following figures:

## RECEIPTS.

Local tax levy . . . . .	\$318,779 31
State apportionment . . . . .	68,928 62
All other sources . . . . .	6,725 33
Total receipts . . . . .	————— \$394,433 26

## DISBURSEMENTS.

Salaries of all employes . . . . .	\$272,037 52
Land and buildings . . . . .	92,301 70
All other expenditures . . . . .	42,116 68
Total disbursements . . . . .	————— \$406,455 90
Disbursements in excess of receipts . . . . .	12,022 64

It will be seen that the Board of Education did not live within its income the past year. This is a condition of things that should not be permitted in any municipal department, except in case of great emergency. I am not informed of the necessity of this excess in expenditure, but from the large outlay in sites and buildings it may be inferred that the demand for more and better room was extraordinary. The payments on account of the new high school building doubtless added to this item of expense.

It is not necessary for me to repeat what I have before said, that I have great confidence in our public schools. But we must not rest satisfied with the conviction that we have reached the best attainable results in a system of education. Every change that will enable us to reach a higher standard of excellence should be promptly made. We cannot afford, for the sake of our children, to let our schools deteriorate; but at the same time we must not forget that economical management in conducting all public affairs is indispensable to the best results.

## NEWSBOYS AND BOOTBLACKS.

I desire to say a few words in behalf of the newsboys and bootblacks of our city, and to suggest that something be done for the regulation of these trades.

The boys thus employed are from eight to sixteen years of age; they number from four to five hundred. The rough experience of the street is doubtless in many respects an excellent school. It tends to develop energy, tact, and self-reliance, which are the prime essentials of success, as is proved by the records of many of our most eminent men, who began active life in these humble callings. It is to be feared, however, that these benefits are more than offset in many cases by the corrupting influence of bad associates. It is a manifest duty on our part to throw around them every safeguard, and put before them every incentive to good behavior. With this end in view, I would recommend the passage of an ordinance similar to the one now in force in the city of Detroit. This ordinance is to be found on page 718 of the Journal of the Council of that city for 1877, now on file in our Municipal Library.

It provides that newsboys and bootblacks cannot ply their trade without getting permits from the Mayor, and obtaining a metal badge, duly numbered. The Mayor may revoke the permit at any time if the party is guilty of using any vile language, or of any disorderly or indecent conduct.

These permits and badges are looked upon as certificates of good character; and on this account the boys take just pride in being thought worthy to retain them, and would feel deeply the disgrace of being compelled to surrender them.

## MILITARY ORGANIZATIONS.

The military force of the city consists of the Fifteenth Regiment Infantry O. N. G., Colonel A. T. Brinsmade commanding; the First Light Artillery O. N. G., Captain Louis Smithnight commanding; the Cleveland Grays, Captain John N. Frazee commanding; and the Gatling Gun Battery, Captain William Goodspeed commanding.

These organizations without exception are in fine condition, are well officered, and are very proficient in military discipline and tactics.

I have no hesitation in saying that the military organizations of the city are capable of affording ample protection to the lives and property of our citizens in case of danger. Experience has demonstrated that an efficient military force is a necessity in all cities; and should the services of these organizations ever be required they will be prompt to respond. I trust they will continue to have the confidence and co-operation of our citizens, for they are certainly worthy of it.

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## EXECUTIVE DEPARTMENT.

It is made the duty of the Mayor by Section 4, Chapter 5, Division 4, of the Municipal Code, to "supervise the conduct of all the officers of the corporation, inquire into and examine the grounds of all reasonable complaints against any of them, and cause all their violations and neglect of duty to be promptly punished or reported to the proper authority for correction."

The duty thus imposed upon the Mayor cannot be faithfully performed unless he is placed in a position where he has a fair opportunity to know whether the funds of the corporation are squandered or misappropriated by the officers entrusted with their disbursement. This city has four muni-

cipal boards, the members of which are all elected by the people, (except in the single instance of one member of the Board of Fire Commissioners), which have absolute control of the funds belonging to their respective departments, and in no one of them has the Mayor a vote.

The names of these boards and the amounts of money severally disbursed by them during the year 1878 are as follows:

NAME OF BOARD.	DISBURSEMENTS.
Board of Education . . . . .	\$406,455 90
Board of Fire Commissioners . . . . .	159,970 44
Board of Trustees of Water Works . . . . .	189,170 36
Board of Infirmary Directors . . . . .	63,985 17
Total . . . . .	<hr/> \$819,581 87

That the Mayor should be held responsible for the conduct of officers who have the handling yearly of \$819,581.87, and yet have no voice in their deliberations, and no means of knowing, except by their books and annual reports, whether the bills approved by them are just or unjust, is, to say the least, contrary to common sense. I would therefore suggest that your Honorable Body apply to the Legislature for such change in the law as will require the Mayor to be ex-officio President of all these Boards, with power to vote. I have not mentioned the Workhouse Board, or the Board of Park Commissioners, for the reason that their members are appointed by the Mayor, and it is a question of doubtful propriety whether he should preside over a Board of his own creation.

Although not coming properly under this head, there is another defect in our municipal system to which I beg leave to call your attention.

The Board of Education, under existing laws, is a corporation wholly independent of the city. It has power to



determine and certify to the County Auditor estimates of taxes for school purposes for the ensuing year, even to the maximum limit allowed by law, and neither the City Council nor the County Auditor has any power to revise or abridge the same.

The law says the County Auditor shall place the amount so estimated on the tax duplicate for collection. That the taxpayers of Cleveland may understand the full scope of the autocratic power vested in this Board, it is only necessary to state that under the Act of May 1st, 1873, it had power to certify to the County Auditor, yearly, tax estimates for school purposes, to the maximum limit of seven mills on the entire taxable property of the corporation. This on a valuation of \$71,000,000 would amount to nearly one-half million dollars yearly. It is due, however, to the Board of Education, to say that the highest estimate ever made by it was in 1875, when it fixed the levy at five mills. Under the law passed April 8th, 1878, the maximum limit was reduced to four and one-fourth mills. The power vested in this Board does not stop here; under section fifty-six of said law it has power to issue bonds to obtain or improve public school property, at a rate of interest not exceeding eight per cent. per annum, payable semi-annually.

In this connection, the fact to which I desire to direct special attention is, that by the statute of 1873, the title to all the school property of the City of Cleveland is vested in this independent corporation. A careful estimate of the value of this property places it at one and one-half million dollars, and this the Board has unrestricted power to change or dispose of, by the simple adoption of a resolution. No other real estate belonging to the city can be sold or leased without a recommendation from the proper Board, and the formality of an ordinance from the City Council, fixing the price and terms:

but the Board of Education can strike off to the highest bidder any school-house and site in the city, and there is no power in any branch of the Municipal Government to interpose effective opposition. I am convinced that absolute power over matters of so grave concern to the public, should be exercised only with the sanction and concurrence of the executive and legislative branches of the City Government. The Legislature of the State should be at once requested to amend the law which confers and regulates the powers of this Board.

In making these suggestions I wish it distinctly understood that it is not for the purpose of casting any reflections on the present members of the Board of Education. They are gentlemen of high character, and have no doubt performed their duties with a conscientious regard for the promotion of the interests committed to their care. But a power so absolute is liable to abuse, and in the scramble for municipal offices it may happen in the future that men will be elected to this position who pay little or no taxes and yet have the power to certify an estimate for school purposes, which will be oppressive to those who contribute to the public burdens. There is one other Board subject to the same criticism, and that is the Board of Police Commissioners. Section 20, volume 73, page 55, of the Police Commissioners' Act requires that the yearly estimates made by this Board and certified to the City Auditor, shall be presented by him to the Council, and the language of the law is imperative that the Council shall provide for such estimate. I recommend that the law be so changed that the City Council shall have ultimate power to pass upon and determine the amount of taxes to be levied for the maintenance of each and every department of the City Government.

CITY CLERK'S DEPARTMENT.

From the Clerk's annual report I extract the following table, which shows a considerable reduction in the cost of printing, advertising, and stationery supplies for the past four years, and that in 1878 the expenditure for these items was less by over fifteen thousand dollars than in 1875:

YEAR.	Printing and Stationery.	Advertising.	Totals.
1875 . . . . .	\$9,164 60	\$16,080 91	\$25,245 51
1876 . . . . .	9,697 29	10,367 10	20,064 39
1877 . . . . .	6,817 52	3,993 45	10,810 97
1878 . . . . .	6,066 62	3,366 15	9,432 77

This is due to the system adopted in 1877 of advertising for proposals and letting out the work and furnishing of supplies by contract to the lowest bidder. I am informed by the City Clerk that this system has thus far given the most satisfactory results; that it required in 1878 an expenditure on account of the above items of \$6,955.64 less than the average annual expenditure for the four years above specified, and that the quality of the supplies furnished the city has been fully up to the requirements of the contract in every instance.

Under the management of Clerk Eckman and his two able assistants, Messrs. Vanek and Delamater, this department has been conducted in a manner which reflects great credit upon those officers. The manifold duties of the office have been performed by them with promptness, courtesy and ability; and I am pleased to be able to testify to their especial fitness for the positions they occupy.

## DEPARTMENT AND OFFICERS.

There has been but one change among the heads of departments of the City Government during the past year. In April, 1878, Mr. Henry Ford was elected by the Council to the position of City Auditor, vice Thomas Jones, Jr.

Like his predecessor, Mr. Ford brought to this office uprightness of character and honesty of purpose, and his management thus far has proven his ability to satisfactorily perform the duties therein imposed.

## CITY TREASURER.

The re-election of City Treasurer Everett to the position which he has held for ten years, is a deserved compliment to an honest and efficient public officer. Mr. Everett, by his financial ability and his personal efforts has contributed largely towards advancing the credit of our city, so that her bonds always command a premium in the Eastern market.

## MAYOR'S CLERK.

During the first eighteen months of my administration, Mr. M. G. Watterson was Clerk of the Board of Improvements and of the Mayor. His election to the responsible position of County Treasurer necessitated his resignation of an office which he had held for twelve years. His long experience, his thorough knowledge of the details of every department of the City Government, and, above all, his unswerving fidelity and integrity in the discharge of his official duties, rendered his services to the city beyond value.

Mr. W. E. Sherwood, who was elected to take his place, has shown marked ability in the performance of the complex duties connected with his position, and it affords me pleasure to commend him as a competent and faithful public servant.

It affords me pleasure also to state that during my administration I have found the officers in the several departments

uniformly honest, active, and competent; and I am free to say that I do not believe any large city in the Union has less ground to suspect the uprightness and capability of her officials than the City of Cleveland.

#### CONCLUSION.

In retiring from the responsible position which I have held for two years by the suffrage of the people, I desire to thank your Honorable Body, without distinction of party, for the kind treatment which I have received at your hands, and to congratulate you on the election of a successor whose long experience in municipal affairs, and whose honesty and fidelity eminently fit him for the position.

I surrender to him to-night the cares and responsibilities of the office, knowing that "economy and retrenchment" will be the watchwords of his administration, and that no personal consideration will ever swerve him from the path of duty.

Respectfully submitted.

W. G. ROSE, Mayor.



INAUGURAL ADDRESS

OF

HON. R. R. HERRICK, Mayor.





## INAUGURAL ADDRESS.

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*Gentlemen of the City Council:*

As Executive Officer, custom requires me to address you at this reorganization of the Municipal Government. My predecessor has given a plain and complete statement of the condition of each Department of the City Government, and I wish to express what I believe to be the universal sentiment, that a large degree of caution and care has been exercised by him and the City Council. Economy in the various Departments of the City Government has resulted in a decrease in taxes, notwithstanding the large increase of interest on Bonds issued for Viaduct purposes.

Too much cannot be said in praise of the outgoing administration for having turned the tide. Heretofore it has been the rule to expend more than the revenues and so year by year increase our rate of taxation, and issue bonds to make up deficiencies. During the past year not one dollar in bonds has been issued for any purpose (except Viaduct) which can in any way be chargeable to the management of the term just closed. My experience in municipal affairs during years which have passed has been a source of instruction to me, and without casting any reflections on any official whose term of office has closed, I desire as concisely as possible, not in a dictatorial way, to look over the years that have passed

with you, with a view to our mutual benefit and profit to our constituents. Experience is the best educator, and he who learns from its teachings learns wisely. In order to secure an efficient administration of the city there must be unity in our work. Nothing works greater evil than wrangling and discord. Political antagonisms should as far as possible be avoided, as our work is the protection of property and persons. We are the representatives of one of the most populous cities in the West, comprising nearly every nationality, each having their own peculiar ideas, which under our form of government are alike entitled to protection. Our people are law-abiding and peaceable. In point of intelligence they are not excelled. Our public schools and school accommodations are not surpassed by any city. As regards location our city is the natural receptacle of the minerals of our own State and the ores of the lake region, here to be distributed or reproduced in many varieties of manufactured goods. Twenty million dollars of capital are invested in establishments which consume twenty-five million dollars in material yearly. In brief we represent one of the most intelligent, wealthy and industrious cities in the United States.

The people have given into your hands the power to levy and collect taxes and expend the money when raised. Taxation is burdensome and to a certain degree oppressive, and especially so at this time. In the exercise of this great power we must not forget that we are the servants, not the masters. Let us not flatter ourselves that having been made the guardians of these great interests a jealous people will not hold us to strict account. After having received the congratulations of our nearest friends for the distinction conferred upon us, they, as well as all others, who have contributed to pay the expenses of our Municipal Government will scrutinize our work, and with perfect right criticise our acts.

The rapid growth of this city during the past fifteen years,

has called for large expenditures for improvements in order to keep pace with the increase of population. There is not another city in the world with the same population having so many miles of streets of unusual width—being 369 7-10 miles of streets and 54 6-10 miles of alleys; total streets and alleys of 424 3-10 miles. To this expense must be added the cost for sewerage, water, gas, etc. These improvements were made at a time of great inflation, at a much greater cost than would be necessary at the present time; and having been made mostly on credit we are compelled to pay more than their present value. A large portion of these improvements could not be avoided, as they were a necessity. We have secured our population and our wealth. In this light we are paid in great degree for the excessive cost. It now remains to meet our obligations with as little interference with our business interests as possible. Nothing so effectually strangles manufacturing and all business enterprises as a high rate of taxation.

We have just passed an era of speculation in real estate during which prices fearfully fabulous were current, and which has resulted in a collapse, more especially true with land remote from the business center. The day of reckoning came and foreclosures were of daily occurrence. The city has to a great extent been a partner in these speculations by lending its credit for opening new streets and improving them, issuing its bonds therefor to be paid by special assessment on property supposed to be benefited. In many cases the property has been unable to pay and we find a great part of the taxable property of the city under bonds to pay for improvements not needed for many years to come. The serious effect of this has made the assessments on unproductive property, together with the decline in value, crushing, and in some cases the taxes imposed have amounted to absolute confiscation. The effect on otherwise available property is to pre-

vent or hinder improvements on the property, compelling the owner to practice inconvenient economy to the detriment of his estate. The excellent credit of the city has to a great extent been the cause of much embarrassment. The facility of raising money without alarming the taxpayer by demands to pay as you go has helped fix upon us a large bonded debt, and we are now borrowing by issue of new bonds to meet the payment of those maturing. This kind of financiering, if persisted in, will lead to but one end—the financial destruction of our credit. The same rules which apply to individuals apply to cities. You will pardon me for calling your attention to a very common practice in legislative bodies like this—each member represents a local district; he is expected to look after the interests of his particular ward or constituency; he has some local project which he desires to accomplish; alone he may not be able to bring about his particular scheme, but by uniting with other members having like projects, many unimportant measures are adopted which, in the aggregate, amount to large expenditures. Municipal corporations should come to a halt in extravagant expenditures, at least till the business interests of the country revive, and all our resources are engaged, and the large amount of surplus labor finds employment. It is unquestionably true the tide has already turned, but a sudden plunge into prosperity cannot be expected. Let us, as far as possible, lighten the load and help make the ascent as rapid as possible. Economize in your appropriations and postpone all new projects that will involve any considerable outlay until we can recover from our commercial and industrial depression.

Immediate steps should be taken by your Honorable Body in ascertaining what rights the State has in the Canal Lands, which, by agreement are to be transferred to the city. Competent persons should be empowered to procure all titles and conveyances now to be found in the State archives, with a

view of having such conveyances placed upon the records of this county. The City Civil Engineer should be instructed to make a plot of all parcels of land conveyed by the State, to be kept in his office for the benefit of all interested parties.

I feel myself exceedingly fortunate in assuming the office of Mayor at what I believe to be the opening of a new era for the city, in which she is destined to attain a degree of growth, wealth and prosperity far exceeding the expectations hitherto entertained by her most sanguine citizens. The cloud that has hung for several years over our country has rolled away, and the morning is bright with promise. In the evil days that are past no industry has suffered more than those connected with coal and iron; the fuel and fingers of all manufacturing. As these were the first to be paralyzed by the panic, so will they be among the last to recover; but the time of suffering is over and vigorous business health is again ours.

We have the assurance that the Breakwater to which we have so long looked forward, will be pushed steadily to completion, and that when it is done, Cleveland will have advantages as a shipping point exceeding those of any other city on the whole chain of the Great Lakes. Even before we come into the full enjoyment of this costly improvement we know that the Valley Railroad will be completed to Canton, in an air line toward the great coal fields of Ohio, from which the whole world might be supplied with fuel for a century to come, and which are not less rich in indispensable materials for iron manufactures. Beyond the terminus of the Valley Road itself other roads are being pushed forward through the very veins of this mineral wealth toward the Ohio River, whose freight will seek the water carriage of the lakes by the most direct and available routes, and which the far-sighted energy of the people of Cleveland may be trusted to make tributary to her growth and prosperity.

With the Breakwater, giving her a harbor for shipping of every kind, and her railroads running from her wharves to the mines and furnace doors, the future growth and prosperity of Cleveland is as assured as has been that of Philadelphia and Pittsburgh from the same great sources—iron and coal.

In conclusion, I repeat that, holding these views of the nature of the new career on which our beloved city is about to enter after the long years of depression, it gives me great pleasure to have been intrusted by my fellow citizens with the important office upon the duties of which I now enter. But with this comes also a sense of responsibility which I shall endeavor to meet by promoting to the extent of my power all such works and enterprises as tend to benefit the trade and commerce of Cleveland.

Respectfully submitted,

R. R. HERRICK, Mayor.

# ANNUAL REPORTS

OF THE DEPARTMENTS OF

## CITY GOVERNMENT

OF THE

CITY OF CLEVELAND,

FOR THE

YEAR ENDING DEC. 31, 1878.





**ANNUAL REPORT**

**OF THE**

**Board of Park Commissioners**

**FOR THE**

**YEAR ENDING DEC. 31ST, 1878.**



ANNUAL REPORT  
OF THE  
Board of Park Commissioners.

DR. A. EVERETT, *President*.  
J. H. SARGENT, J. H. WADE.  
W. H. ECKMAN, *Secretary*.

*To the Honorable City Council:*

GENTLEMEN:—A statement of the receipts and expenditures on account of Public Parks, for the fiscal year ending December 31st, 1878 is herewith submitted.

RECEIPTS.

Balance to Credit of Fund, January 1st, 1878.....	\$12,745 38	
From the levy for the year.. . . .	3,507 56	
From miscellaneous sources.....	15 00	
Total.....		\$16,267 94

EXPENDITURES.

Labor pay rolls for the year.....	\$4,284 05	
Trees, shrubs, &c.....	396 90	
Rent of tool houses ...	220 00	
Lighting Clinton Park. ....	360 00	
Sprinkling tax.....	191 94	
Resurfacing walks. ....	178 75	
Bullding tool house on Lake View.....	454 78	
Secretary's salary.....	300 00	
Sundry current expenses ...	312 31	
Total.....		\$8,678 73
Balance on hand January 1, 1879 .....		\$9,589 21

By order of the Board of Commissioners,

W. H. ECKMAN,  
*Secretary.*

ANNUAL REPORT

OF THE

Board of Improvements

FOR THE

YEAR ENDING DEC. 31st, 1878.



ANNUAL REPORT  
OF THE  
BOARD OF IMPROVEMENTS,  
FOR THE  
YEAR ENDING DECEMBER 31, 1878.

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*To the Honorable City Council:*

GENTLEMEN:—The Board of Improvements herewith submits its annual report for the year ending December 31, 1878.

This report embraces accounts of all work and expenditures under its immediate control and not falling within the special jurisdiction of either the City Civil Engineer or Street Commissioner, who each submit separate reports for their respective departments.

It will be observed that the reports of each of these departments show a very great reduction over former years in the amount of their annual expenditures. The entire expenditure by the Board of Improvements for all purposes during 1878 was \$46,608.46, being \$9,876.22 less than in 1877, \$38,742.84 less than in 1876, and \$71,751.02 less than in 1875.

It has been the constant effort of this Board to conduct all matters under its control and management in the most economical manner possible consistent with the best interest of the city. How well it has succeeded the above statement of the savings over the three preceding years best shows.

No improvements of any account, either of a special or general character, have been begun during the year. The only work of any considerable importance prosecuted by the city was the Viaduct. This vast structure has at length been substantially completed and is now in use by the public. The entire cost thus far, according to the Report of the City Civil Engineer, is \$2,125,000.00. Some additional work is necessary in order to entirely complete it, but the whole cost will, we are assured, come within the estimate made at the time the Supplemental Viaduct Act was passed permitting further appropriation for its construction, namely \$2,200,000.00.

The character and cost of all improvements in progress during the year are fully set forth in the Engineer's Report, from which it will be seen that the entire cost of all improvements was \$486,433.63, of which \$444,894.77 were expended upon the Viaduct, leaving but \$41,538.85 as the expenditure for all other purposes.

As the public improvements have gradually been completed and the work under the supervision of the Engineer lessened, the cost of conducting his Department has been diminished in an equal degree, as is shown by the following table:

*Amount of Pay Rolls, including the Salaries of the Engineer and Viaduct Engineers.*

1874 . . . . .	\$23,859 81
1875 . . . . .	27,124 32
1876 . . . . .	26,898 74
1877 . . . . .	23,171 97
1878 . . . . .	14,678 84
1879 (as at present fixed) . . . . .	9,279 96

The Street Commissioner's Report also makes a highly favorable showing, and one very flattering to him as head of the Street Department.

It will be seen by comparison that the cost of the work in the Street Department was in 1877 more than 40 per cent., and in 1878 more than 50 per cent. less than in 1875 and 1876.

During the past year the streets, avenues, alleys, market



spaces and catch basins in the city have been cleaned by contract as provided by the law passed in 1876, and that system given a very thorough trial.

It has thus far given reasonable satisfaction. The streets, etc., of the city have been cleaned nearly if not quite as well as under the old system, and the cost does not exceed one-half as much as formerly. The Board is of the opinion that with each year improvements can be made in its efficiency so that eventually it will not only be the cheapest, but the best mode of cleaning the streets, etc., of the city. The expenditures authorized by the Board not included in the reports of the Engineer and Street Commissioner are given below:

BRIDGES.

The pay of the principal Bridge Tenders on the river bridges was fixed at \$2.00 in January instead of \$2.50, changed in April Pay Roll from \$2.00 to \$2.25, and afterwards changed to \$2.50 per day. The following schedule shows the force on each bridge and the wages paid :

CENTER STREET BRIDGE.

One Tender, paid . . . . .	\$2.50 per day.
One Helper, paid . . . . .	1.75 per day.
Two Helpers, each paid . . . . .	1.50 per day.

COLUMBUS STREET BRIDGE.

One Tender, paid . . . . .	\$2.50 per day.
One Helper, paid . . . . .	1.75 per day.
Two Helpers, each paid . . . . .	1.50 per day.

SENECA STREET BRIDGE.

One Tender, paid . . . . .	\$2.00 per day.
Three Helpers, each paid . . . . .	1.50 per day.

LOWER CENTRAL WAY BRIDGE.

One Tender, paid . . . . .	\$2.00 per day.
Three Helpers, each paid . . . . .	1.50 per day.

UPPER CENTRAL WAY BRIDGE.

One Tender, paid . . . . .	\$2.00 per day.
One Helper, paid . . . . .	1.50 per day.

MAIN STREET BRIDGE.

One Tender, paid . . . . .	\$2.50 per day.
One Helper, paid . . . . .	1.75 per day.
Two Helpers, each paid . . . . .	1.50 per day.

## WILLOW STREET BRIDGE.

One Tender, paid . . . . . \$2.50 per day.  
 One Helper, paid . . . . . 1.75 per day.  
 Two Helpers, each paid . . . . . 1.50 per day.

## SWISS STREET BRIDGE.

One Tender, paid . . . . . \$7.00 per week

## JEFFERSON STREET BRIDGE

One Tender, paid . . . . . \$2.00 per day.

## WALWORTH RUN BRIDGE.

One Tender, paid . . . . . \$12.00 per week.

The following is a classified statement of the cost of maintaining Bridges for the year :

## CENTER STREET BRIDGE.

Bridge Tenders' Pay . . . . .	\$2,204 75	
Supplies . . . . .	85 71	
Repairs . . . . .	1,217 25	
Total . . . . .		\$ 3,507 71

The amount paid for Repairs on this Bridge is greater on account of the putting up of Patent Gates costing \$500.00.

## COLUMBUS STREET BRIDGE.

Bridge Tenders' Pay . . . . .	\$2,169 00	
Supplies . . . . .	82 10	
Repairs . . . . .	178 92	
Total . . . . .		\$ 2,430 02

## JEFFERSON STREET BRIDGE.

Bridge Tenders' Pay . . . . .	\$ 714 75	
Supplies . . . . .	6 04	
Repairs . . . . .	99 87	
Total . . . . .		\$ 820 66

## EAGLE STREET BRIDGE.

Repairs . . . . .	\$ 53 00	
Total . . . . .		\$ 53 00

## LOWER CENTRAL WAY BRIDGE.

Bridge Tenders' Pay . . . . .	\$1,977 75	
Supplies . . . . .	69 07	
Repairs . . . . .	354 70	
Total . . . . .		\$ 2,401 52

## MAIN STREET BRIDGE.

Bridge Tender's Pay . . . . .	\$2,261 25	
Supplies . . . . .	54 00	
Repairs . . . . .	459 57	
Total . . . . .		\$ 2,774 82

## SWISS STREET BRIDGE.

Bridge Tenders' Pay . . . . .	\$ 365 00	
Supplies . . . . .	10 88	
Repairs . . . . .	787 42	
Total . . . . .	<u>          </u>	\$ 1,163 30

## UPPER CENTRAL WAY BRIDGE.

Bridge Tenders' Pay . . . . .	\$1,172 50	
Supplies . . . . .	41 14	
Repairs . . . . .	576 23	
Total . . . . .	<u>          </u>	\$ 1,789 87

## MERWIN STREET BRIDGE.

Repairs . . . . .	\$ 31 56	
Total . . . . .	<u>          </u>	\$ 31 56

## SENECA STREET BRIDGE.

Bridge Tenders' Pay . . . . .	\$1,611 50	
Supplies . . . . .	67 13	
Repairs . . . . .	612 31	
Total . . . . .	<u>          </u>	\$ 2,290 94

## WILLOW STREET BRIDGE.

Bridge Tenders' Pay . . . . .	\$2,240 25	
Supplies . . . . .	116 19	
Repairs . . . . .	186 43	
Total . . . . .	<u>          </u>	\$ 2,542 87

## WALWORTH RUN BRIDGE.

Bridge Tender's Pay . . . . .	\$ 625 80	
Supplies . . . . .	14 99	
Repairs . . . . .	167 63	
Total . . . . .	<u>          </u>	\$ 808 42

## WINSLOW STREET BRIDGE.

Repairs . . . . .	\$ 12 02	
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## COMMERCIAL STREET BRIDGE.

Repairs . . . . .	\$ 12 82	
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## SOUTH WATER STREET BRIDGE.

Repairs . . . . .	\$ 23 10	
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## EAST MADISON AVENUE BRIDGE.

Repairs . . . . .	\$ 26 87	
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Grand Total . . . . .            \$20,689 50

## SUPERINTENDENCE OF WORK.

The following table shows the cost of superintending the work on the various improvements in progress during the year :

Construction of Viaduct.....	\$4,330 10
Dredging and Grading.....	97 50
Inspector of Sewers.....	182 50
Inspector of Repairs on Paved Streets.....	256 00
Total.....	<u>\$4,866 10</u>

## OTHER EMPLOYES.

Mayor's Clerk and Clerk of Board.....	\$833 31
Man employed to serve sidewalk and other notices.....	547 75
Assistant Clerk of Board.....	625 00
Copyists.....	900 00
Elevator Operator.....	575 00
Engineers of heating apparatus.....	1,436 03
Total.....	<u>\$4,917 09</u>
Grand Total.....	<u>\$9,783 19</u>

## SPECIAL ASSESSMENTS.

The cost of making these assessments for 1878 was as follows :

Salary of F. M. Heisley for services in preparing estimated assessments.....	\$127 04
Fees of Assessing and Equalizing Boards—	
Willson Avenue grading and improving.....	225 00
Sheriff Street opening.....	25 00
St. Clair Street sewer.....	65 00
St. Clair Street paving.....	50 00
Summit Street sewer.....	15 00
Total.....	<u>\$ 507 04</u>

## SPRINKLING.

The cost of this work to the city was as follows :

West Side Circle and Franklin Ave. through Circle....	\$ 108 00
Pearl and Lorain Streets in front of West Side Market.	27 00
Total.....	<u>\$ 135 00</u>

## CATCH BASINS AND SEWERS.

Alabama Street Sewer Outlet.....	\$ 193 88
Burton Street, at Lorain street, putting iron cap and cover on flushing-hole.....	11 25
Cedar Avenue, raising arch.....	205 05
Champlain Street, taking up spring.....	157 65
Case Avenue, at outlet.....	181 56
Cedar Avenue, cleaning out sewer.....	180 00
Columbus Street, repairing sewer.....	154 37
Doan Street, at Superior street, laying pipe and build- ing catch basin, .....	63 80
Elm Street, at Second street, putting iron cap and cover on man-hole.....	17 75
Eagle Street Hill, taking up spring.....	41 00
Franklin Avenue, plastering sewer.....	6 75
Fullerton Street, laying sewer.....	280 00
Franklin Street Hill, taking up spring.....	97 90
Garden Street, putting on flushing-hole cap and cover..	9 33
Giddings Avenue, at Quincy street, putting cap and cover on flushing-hole.....	2 50
Gordon Avenue, at Bridge street, repairing sewer.....	9 70
Hamilton Street, at Wason street, laying pipes.....	22 63
Kinsman Street, taking up spring.....	107 30
Kentucky Street, at John street, building catch basin and connecting to sewer.....	48 00
Lexington Avenue, building catch basin and laying sewer pipe.....	154 00
Main street, at Mulberry street, sewer connections.....	29 58
Oregon Street, building branch sewer and cleaning box- drains and cellar.....	181 50
Prospect Street, at Ontario street, repairing and clean- ing sewer.....	20 35
Ross Street, at St. Clair street, putting cap and cover on flushing-hole.....	13 70
Seneca Street, laying pipe.....	492 25
Sheriff Street, repairing and cleaning sewer.....	16 00
Spring Street, examining sewer and repairing pavement	4 00
Sawtell Avenue, laying sewer.....	141 00
Sibley Street, repairing and plastering catch basins....	56 55

Swiss Street Bridge, repairing catch basin at north end.	39 73
St. Clair Street, at Ann street, taking down and rebuilding catch basins.....	26 15
Sterling Avenue, at Prospect street, building catch basin cover.....	10 50
Union Lane, repairing sewer.....	17 50
Vineyard Street Hill, taking up spring.....	40 75
West River Street, at Meyers' foundry, repairing sewer.	61 50
Woodland Avenue, finding sewer connections.....	8 25
Washington Street, at Oakland street, putting iron cover and stone on catch basin.....	10 99
Total.....	<u>\$3,114 72</u>

## THE VIADUCT.

The following items of expense were on account of the Viaduct:

Filling in retaining walls and piers of Viaduct.....	\$ 321 90
Removing contents of vaults in line of the Viaduct.....	267 75
Removing and repairing houses in line of the Viaduct..	322 40
Putting in two catch basins at intersection of Flint street and the Viaduct.....	25 35
Preparing drawings and specifications of steam engine, etc., on the drawbridge.....	255 00
Land purchased for Viaduct purposes.....	2,300 00
Ornamental lamp pillar and lamp.....	85 00
Work on Viaduct pivot pier.....	45 85
Work on Viaduct safety gates.....	56 08
Couplings, etc.....	28 22
Telegrams sent to contractors.....	3 54
Total.....	<u>\$3,711 09</u>

## CATTLE POUNDS.

The following were the expenditures for the year on this account :

## FIFTH WARD.

Pound Keeper's pay.....	\$697 50
Coal.....	6 24
Total.....	————— \$ 703 74.

## SIXTH WARD.

Pound Keeper's pay.....	\$706 25
Rent of Pound.....	50 00
Total.....	————— \$ 756 25

## THIRTEENTH WARD.

Pound Keeper's pay.....	\$687 50
Rent of Pound.....	50 00
One padlock.....	75
Total.....	————— \$ 738 25

## FOURTEENTH WARD.

Pound Keeper's pay.....	\$683 75
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## SEVENTEENTH WARD.

Pound Keeper's pay.....	\$686 25
Rent of Pound.....	12 00
One staple.....	15
Total.....	————— \$ 698 40

## EIGHTEENTH WARD.

Pound Keeper's pay.....	\$701 25
Hardware.....	7 05
Total.....	————— \$ 708 30

## SWISS STREET POUND.

Pound Keeper's pay.....	\$647 50
Rept of Pound.....	50 00
Total.....	————— \$ 697 50

Grand Total.....	————— \$4,986 19
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## CUYAHOGA RIVER.

A few expenditures on account of the Cuyahoga River are given below :

Dredging above Upper Central Way Bridge.....	\$ 6 87
Sounding River.....	7 75
Total.....	————— \$ 14 62

## CITY DOCUMENTS.

## CITY HALL.

Building fence in rear of City Hall and repairing storm door.....	\$172 66
Burners.....	16 50
Kindlings.....	20 25
Rent of basement and closets in City Hall.....	100 00
Repairs on heating apparatus and elevator.....	409 42
Repairs on offices.....	83 01
Repairs on building.....	50 37
	<hr/> \$ 852 21

## MAYOR'S AND BOARD OF IMPROVEMENTS OFFICE.

Supplies.....	\$ 7 54
Stationery.....	80 09
	<hr/> \$ 87 63
Total.....	<hr/> \$ 939 84

## STREET REPAIRS.

Columbus and Pearl streets, repairing break and buildings,	\$312 71
Detroit street, earth delivered on same.....	10 12
East Prospect street, at Morse avenue, repairing.....	54 70
Grand avenue, from Kinsman to Miles street, dressing up roadway.....	6 25
Harvard street, from Broadway to Brecksville road, dressing up roadway.....	90 50
Herald street, from Kinsman street to Woodland avenue, dressing up roadway.....	30 00
St. Clair street, from Becker avenue to city limits, grading same.....	95 50
Total.....	<hr/> \$ 599 78

## MISCELLANEOUS.

The following are not capable of classification :

Street names put up.....	\$ 15 92
Cleaning the new Canal Lock.....	54 50
Piles driven and furnished at Main street bridge.....	295 00
Building fence on Bank street at Union Depot.....	203 79
For sidewalk tax paid by erroneous location of sidewalk.	10 41
Construction of frame work and gates to waste-wier near the Weigh Lock.....	198 87



Moving two houses from Division street and repairing same.....	95 00
Canal Improvements.....	16 50
Tool House Repairs.....	21 40
Stone for paving and repairing Elm street where the track to the Viaduct was laid.....	400 00
Printing and Advertising.....	761 30
Recording plats.....	27 60
Stamps and car fare.....	27 20
Total.....	———— \$2,127 49

## SUMMARY.

Total cost of Bridges.....	\$20,689 50
Total cost of superintendence of work.....	4,866 10
Total cost of other employes.....	4,917 09
Special assessments.....	507 04
Total cost of sprinkling.....	135 00
Catch Basins, sewers, etc.....	3,114 72
Viaduct.....	3,711 09
Cattle Pounds.....	4,986 19
Total cost of Cuyahoga River dredging.....	14 62
City Hall Expenditures.....	939 84
Street Repairs.....	599 78
Miscellaneous.....	2,127 49
Total.....	———— \$46,608 46

All of which is respectfully submitted.

By order of the Board of Improvements,

W. E. SHERWOOD, Clerk.



**ANNUAL REPORT**

**OF THE**

**CITY CIVIL ENGINEER,**

**FOR THE**

**YEAR ENDING DEC. 31st. 1878.**



# CIVIL ENGINEER'S REPORT.

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CLEVELAND, January 1, 1879.

*To his Honor, the Mayor and the Honorable City Council of the City of Cleveland:*

GENTLEMEN:—I have the honor to submit the Annual Report of the City Civil Engineer's Department during the year 1878:

The total cost of all the work done under the direction of the City Civil Engineer's Department during the year is \$486,433.63, of this amount \$444,894.77 has been expended on the Superior and Pearl Street Viaduct, leaving a balance of \$41,538.85 for all other improvements. The supervision of the work above referred to does not, however, include all the work that has been done by this Department.

The closing up of the various public works, etc., that have been made since 1870 have entailed upon this office more or less work from year to year in the preparation of maps for assessment, litigation, etc., During the past two years a part of the corps have, as time would permit, been engaged in making surveys of streets and placing monuments where none have been placed heretofore. There is a large amount of this work yet to be done, and during the present year, while there is but a small amount of other work on hand I shall keep all the men in the corps available employed in extending and completing the survey of streets, etc. In this way I can keep the present force of six or seven men fully employed to great advantage.

The Superior Street Viaduct was opened to the public December 27th, 1878, and bids fair to be all that was expected of it as a public convenience between the east and west side of the city. At this date the exact cost of the Viaduct cannot be ascertained, as there are several contracts uncompleted on different parts of it, but the amount of unfinished work is so small that it is certain that the whole can be completed within the estimate made at the time of the last legislation was procured, and a vote taken to complete the Viaduct. That estimate called for \$2,200,000, and there has been expended on the Viaduct for construction, right of way, and all other expenses to date about \$2,125,238.13.

The Canal Improvement is about completed and the city can by Spring use that part of the canal bed below the new locks for any purpose that it may desire. There has been constructed during the past year a new waste-wier, and the docks of Marsh & Harwood just below the new lock, have been rebuilt, and a row of protection piling driven above the Weigh Lock. These improvements were required by the Board of Public Works. The total amount expended on the canal improvement during the year 1878 is \$1,483.43.

#### CUYAHOGA RIVER.

Only a very small amount of dredging has been done during the past year, and that mostly above Upper Central Way bridge, to complete the contract on that part of the river, which was let in 1876. The total cost of dredging in this part of the river during the year 1878 is \$8,859.72. This does not include the ten per cent. reserved on work done during the year 1876 and 1877.

There has been but a small amount of dredging done below Upper Central Way bridge, as there were no funds available for that purpose. There will have to be considerable dredging done on this part of the river during the coming season. There will be from ten to fifteen thousand dollars that can be used for this purpose. This amount is raised on the general tax duplicate, and is to pay for one half the dredging, or, in the center channel, all dredging that is necessary to be done alongside of pri-

vate docks this year will have to be paid for by the owners themselves until an assessment has been made in advance of the work being done, as a contract cannot be let for any part of the dredging unless the money is in the treasury to pay for it.

Under the Burns Law no sewers can be built, streets graded or paved, until the money is in the Treasury to pay for the same. This has practically closed or stopped all public improvements. In a city of 150,000 inhabitants it becomes a sanitary necessity to repair and build more or less branch sewers every year, and it would appear at first thought, that if the residents on any street should want a sewer built, that they could voluntarily join together and each one contribute his proper proportion, but it has always been the case, in good or bad times, that some of the property owners of vacant lots, or non-residents, would not join and pay their proportion, and as a consequence, the other property owners or residents on the street have to pay for the improvement in front of their own premises as well as for those who will not sign for the improvement. For this reason very little work can be done in this way. There ought to be some way provided by which branch sewers can be rebuilt or repairs made to sewers without waiting a year or two to raise the money by taxation, and the same may be said of repaving the streets of the city. It will be necessary if there are any streets that should be paved or repaired, or any sewers that should be built during the next two or three years, to commence and levy the tax for the whole or a part of the cost of such improvement this year, so that means can be provided to do the work when it can no longer be delayed.

The repairs of paved streets were let out by contract, and about two-thirds of the work has been completed. Some of the oldest wood paved streets in the city are hardly worth repairing, and will soon have to be repaved. The amount expended during 1878 on repairs of pavements is \$14,662.35.

The accompanying tables exhibit in detail the work and cost of the various improvements made during the year 1878.

Since the completion of the Viaduct the number of employees in this office has been reduced to six; only one-fourth the number employed in 1875 and 1876.

Respectfully submitted.

R. F. MORSE.  
City Civil Engineer.



TABLE NO. 1.  
STREETS, ALLEYS, ETC., OVER WHICH LEVELS HAVE BEEN RUN OR CROSS SECTIONS TAKEN DURING THE YEAR.

NAME.	FROM.	TO.	FEET IN WIDTH.	FEET IN LENGTH.	WORK DONE.
Alley	Warren	Trumbull	16½	347	Levels.
Alley	"	Alley	16	823	Levels.
Alley North of Garden	Sterling	Alley	12	570	Cross Section.
"	"	Newton	12	281	Cross Section.
Alley South of St. Clair	Seneca	Westerly	16	250	Cross Section.
Alley North of Broadway	Perry	Easterly	16	441	Levels.
"	Liberal	Alley	12	272	Levels.
Alley West of Liberal	Cherry	Alley	12	238	Levels.
Clyde Street	University	Southerly	40	418	Cross Section.
Concord Street	Croton	Southerly	40	283	Levels.
Ditch	St. Clair	L. V. & C. R. R.	12	3160	Levels.
Evergreen Street	Roland	Nobles S. Line	60	497	Levels.
Hay Market	Central Place	Hill	63	485	Cross Section.
Hoadley Street	St. Clair	Payne	66	2733	Levels.
Higgins Street	Lorain	Clark	60	1530	Levels.
Market Grounds	Broadway	Alley	132	272	Cross Section.

TABLE NO. 1—CONTINUED.

NAME.	FROM.	TO.	FEET IN WIDTH.	FEET IN LENGTH.	WORK DONE.
Market Grounds.....	Broadway.....	Forsyth.....	75	140	Cross Section.
Ontario Street.....	Summit.....	Lake Erie.....	90	320	Levels.
Pearl Street.....	Walworth Run.....	Monroe.....	82½	640	Levels.
Superior Street.....	Water.....	Public Square.....	132	1330	Levels.
South Alley.....	Canfield.....	New Alley.....	20	1028	Levels.
University Street.....	Starkweather.....	Southerly.....	50	1192	Cross Section.
Viaduct.....	Cuyahoga River.....	Piers 8 and 10.....		277	Levels.
Viaduct.....	Water.....	East End Iron Bridge.....	50	277	Cross Section.
Victor Street.....	Glazier.....	A. & G. W. Railway.....	49½	166	Cross Section.
Washington Street.....	Pearl.....	Center.....	66	1162	Levels.
Total.....				19,161 Feet—3.629 Miles.	

TABLE No. 2.

STREETS REPAIRED, GRADED, OR OTHERWISE IMPROVED, UPON WHICH ENGINEERING WORK WAS DONE BY THE  
DEPARTMENT DURING THE YEAR.

NAME.	FROM.	TO.	HOW IMPROVED.	LENGTH. FEET.	COST.	CONTRACTOR.
Bridge Street..	Cedar Avenue.	Easterly.	Curbed.	830	\$ 221 17	Property Owners
Cedar Avenue..	Fairmount	Doan Brook	Graded.	1,178	100 00	Property Owners
Clinton Street.	Gordon.	Westerly.	Curbed	800	284 75	Property Owners
Evergreen Street.	Roland.	Southerly.	Graded.	497	78 54	Property Owners
Fir Street.	Gordon.	Easterly.	Curbed.	838	103 25	Property Owners
Franklin Avenue.	Gordon.	Westerly.	Curbed.	903	308 85	Property Owners
Gordon Avenue.	C. C. & I. R. R.	City Limits.	Graded.	2,193	1,000 00	Property Owners
Higgins Street.	Lorain.	Clark.	Graded.	1,500	300 00	Property Owners
Kirtland Street (incomplete).	St. Clair.	Superior.	Graded.	1,127	160 00	Property Owners
Summit Street.	Ontario	Seneca.	Curbed.	140	28 00	Property Owners
					<hr/>	
Arlington Street.	Columbus.	Scranton.	Re-surfaced.	975	\$2,585 56	City.
Ditch.	St. Clair.	Superior.	Re-surfaced.	1,230		City.
Ditch.	East Prospect.	Northerly.	Opened.	380		City.
Engle Avenue (incomplete).	Broadway.	Tod.	Gutters Opened.	1,422		City.

TABLE NO. 1—CONTINUED.

NAME.	FROM.	TO.	FEET IN WIDTH.	FEET IN LENGTH.	WORK DONE.
Market Grounds.....	Broadway.....	Forsyth.....	75	140	Cross Section.
Ontario Street.....	Summit.....	Lake Erie.....	90	329	Levels.
Pearl Street .....	Walworth Run.....	Monroe.....	82½	640	Levels.
Superior Street.....	Water.....	Public Square.....	132	1330	Levels.
South Alley.....	Canfield.....	New Alley.....	20	1028	Levels.
Unlversity Street .....	Starkweather.....	Southerly.....	50	1182	Cross Section.
Viaduct. ....	Cuyahoga River.....	Piers 8 and 10.....		277	Levels.
Viaduct.....	Water.....	East End Iron Bridge.....	50	277	Cross Section.
Victor Street.....	Glazier.....	A. & G. W. Railway.....	49½	163	Cross Section.
Washington Street.....	Pearl.....	Center.....	66	1162	Levels.
Total.....				19,161 Feet—3.629 Miles.	

TABLE No. 2.

STREETS REPAIRED, GRADED, OR OTHERWISE IMPROVED, UPON WHICH ENGINEERING WORK WAS DONE BY THE DEPARTMENT DURING THE YEAR.

NAME.	FROM.	TO.	HOW IMPROVED.	LENGTH. FEET.	COST.	CONTRACTOR.
Bridge Street...	Cedar Avenue...	Easterly...	Curbed...	839	\$ 221 17	Property Owners
Cedar Avenue...	Fairmount...	Doan Brook...	Graded...	1,178	100 00	Property Owners
Clinton Street...	Gordon...	Westerly...	Curbed...	890	284 75	Property Owners
Evergreen Street...	Roland...	Southerly...	Graded...	497	78 54	Property Owners
Fir Street...	Gordon...	Easterly...	Curbed...	838	103 25	Property Owners
Franklin Avenue...	Gordon...	Westerly...	Curbed...	903	306 85	Property Owners
Gordon Avenue...	C. C. & I. R. R. ....	City Limits...	Graded...	2,193	1,000 00	Property Owners
Higgins Street...	Lorain...	Clark...	Graded...	1,560	300 00	Property Owners
Kirtland Street (incomplete)....	St. Clair...	Superior...	Graded...	1,127	160 00	Property Owners
Summit Street...	Ontario...	Seneca...	Curbed...	140	28 00	Property Owners
					<hr/>	
					\$2,585 56	
Arlington Street...	Columbus...	Scranton...	Re-surfaced...	975		City.
Ditch...	St. Clair...	Superior...	Re-surfaced...	1,230		City.
Ditch...	East Prospect...	Northerly...	Opened...	380		City.
Engle Avenue (incomplete)....	Broadway...	Tod...	Gutters Opened...	1,422		City.

TABLE NO. 2.—CONTINUED.

NAME.	FROM.	TO.	HOW IMPROVED.	LENGTH. FEET.	COST.	CONTRACTOR.
Franklin Avenue (Incomplete)...	Waverly.....	Westerly.....	Grade and Curb...	770	.....	Property Owners
Glazier Street.....	Nursery.....	A. & G. W. R'y.....	Gutters Opened...	500	.....	City.
Hillman Street (Incomplete).....	Broadway.....	Tod.....	Gutters Opened...	1,130	.....	City.
Mead Avenue.....	Broadway.....	Angle.....	Gutters Opened...	851	.....	City.
Orth Street.....	Lorain.....	Grove Alley.....	Gutters Opened...	263	.....	City.
Scranton Avenue.....	Parafine.....	Wade.....	Re-surfaced.....	2,585	.....	City.
Victor Street.....	Glazier.....	A. & G. W. R'y.....	Gutters Opened...	300	.....	City.
Walnut Street.....	Erle.....	Oak.....	Curbed.....	430	.....	Property Owners
York Street.....	Bridge.....	Circle.....	Graded.....	837	.....	City.
.....	.....	.....	.....	21,838	.....	.....

TABLE NO. 3.  
STREETS UPON WHICH SIDEWALK GRADES HAVE BEEN GIVEN.

NAME.	FEET IN LENGTH.
Cedar Avenue.....	665
Case Avenue .....	541
Cheshire Street.....	202
Clifton Street.....	125
Curtiss Avenue.....	132
Eagle Street.....	66
Forest Street.....	499
Gordon Avenue .....	1450
Lorain Street .....	85
Miles Avenue.....	66
Ohio Street....	175
Summit Street.....	1743
Walnut Street.....	99
Walton Avenue.....	1340
Washington Street .....	1190
Total.....	8378

TABLE No. 4.  
SEWERS BUILT DURING 1878.

NAME.	FROM.	TO.	LENGTH IN FEET.	CROSS SECTIONS.	SIZE IN INCHES.	MATERIAL.	COST.	CONTRACTOR.
Arlington Street.....	Garden .....	Scovill.....	1,226	Circular. ....	12x12	Pipe.....	\$ 832 68	Wood & Sons.
Fullerton Street.....	Broadway.....	Cornell.....	569	Circular. ....	12x12	Pipe.....	280 00	Wood & Sons.
Flint Street.....	Viaduct .....	Detroit.....	150	Egg Shape..	27x23	Brick.....	203 52	J. Mahon, Jr.
Houston Street.....	Cuyahoga River..	Westerly.....	503	Circular. ....	24x24	Brick.....	810 86	S. Wood & Sons
Lexington Avenue.....	East Madison.....	Giddings Br'k	175	Circular. ....	15x15	Pipe.....	127 75	L. F. Beers.
Lexington Avenue.....	East Madison.....	Giddings Br'k	37	Circular. ....	12x12	Pipe.....	26 25	L. F. Beers.
Morse Avenue .....	East Prospect....	Northerly....	50	Circular. ....	12x12	Pipe.....	30 00	G. Dennon.
Morse Avenue.....	East Prospect ...	Northerly....	45	Circular. ....	9x 9	Pipe.....	24 70	G. Dennon.
Oregon Street.....	Dodge.....	Easterly.....	306	Circular. ....	12x12	Pipe.....	163 50	A. G. Daykin.
Osborn Street.....	Scovill.....	Woodland....	980	Egg Shape..	27x23	Brick.....	960 00	S. Wood & Sons
Pearl Street.....	Walworth Run...	Monroe.....	274	Circular. ....	30x30	Iron.....	2,043 81	S. Wood & Sons
Pearl Street.....	Walworth Run...	Monroe.....	358	Egg Shape..	51x40	Brick. ....	1,551 93	A. Campbell.



TABLE NO. 4. -CONTINUED.

NAME.	FROM.	TO.	LENGTH IN FEET.	CROSS SECTIONS. IN INCHES.	SIZE IN INCHES.	MATERIAL.	COST.	CONTRACTOR.
Sawtell Avenue .....	Woodland.....	Southerly....	385	Circular....	12x12	Pipe.....	282 00	S. Wood & Sons
Viaduct.....	W. End Masonry.	Vermont.....	498	Egg Shape..	27x23	Brick.....	1,084 98	J. Mahon, Jr.
Viaduct.....	Center.....	Pier No. 17....	21	Egg Shape..	27x23	Brick.....	123 57	J. Mahon, Jr.
Viaduct.....	Center.....	Pier No. 15....	50	Egg Shape..	27x23	Brick.....	160 69	J. Mahon, Jr.
Viaduct.....	Cuyahoga River..	Piers 8 and 10.	330	Circular....	20x30	Brick.....	635 56	J. Mahon, Jr.
Viaduct.....	Ret. Wall E. Side.	Westerly.....	62	Circular....	6x 6	Pipe.....	39 84	J. Mahon, Jr.
Totals.....			6,020—Miles.....	1,140			\$9,411 62	

TABLE NO. 5.  
STREETS, AVENUES AND LOTS OF WHICH SURVEYS AND MAPS HAVE BEEN MADE IN 1878.

NAME.	FROM.	TO.	FEET IN LENGTH
Aaron Street .....	Payne Avenue .....	St. Clair Street .....	2302.60
Belden Street .....	Payne Avenue .....	St. Clair Street .....	2750.10
Case Avenue .....	Payne Avenue .....	St. Clair Street .....	2534.41
Central Way .....	Cuyahoga Street .....	Stones Levee .....	2689.56
Clark Avenue .....	Rhodes Avenue .....	East Line of Lot 68 .....	2681.00
Clifton Street .....	Payne Avenue .....	St. Clair Street .....	2446.96
Cooper Street .....	Clifton Street .....	Lyman Street .....	782.13
C. & P. Railroad Tracks .....	Payne Avenue .....	Superior Street .....	1500.83
Danford Street .....	Payne Avenue .....	Superior Street .....	1174.19
Detroit Street .....	Angle, West of Hanover .....	East of Pearl Street .....	1124.00
Euclid Avenue, South Side .....	Perry Street .....	Sterling Avenue .....	1991.10
Hoadley Street .....	Superior Street .....	St. Clair Street .....	1214.38
Kirtland Street .....	Payne Avenue .....	Superior Street .....	1688.80
Lawrence Street .....	Payne Avenue .....	St. Clair Street .....	2167.52
Lyman Street .....	Payne Avenue .....	St. Clair Street .....	2611.51

TABLE NO. 5--CONTINUED.

NAME.	FROM.	TO.	FEET IN LENGTH.
McHenry Street.....	Payne Avenue.....	St. Clair Street.....	2681.19
Payne Avenue.....	Sterling Avenue.....	Willson Avenue.....	4881.98
Pearl Street.....	Franklin Avenue.....	Detroit Street.....	1223.50
Phelps Street.....	Payne Avenue.....	St. Clair Street.....	2233.98
Plum Street.....	Parkman Lane.....	Ohio Street.....	705.75
Ridge Road.....	Chestnut Ridge Street.....	Lorain Street.....	4475.78
Rossiter Street.....	Superior Street.....	St. Clair Street.....	940.35
School Lot.....	Rhodes Avenue.....	Walton Avenue.....	
St. Clair Street.....	Sterling Avenue.....	Hoadley Street.....	4082.51
Sterling Avenue.....	Payne Avenue.....	St. Clair Street.....	2034.71
Stones Levee, South Side.....	Cuyahoga River.....	Ohio Canal.....	294.00
Superior Street.....	Sterling Avenue.....	Willson Avenue.....	5811.96
Viaduct.....	Pearl Street.....	Water Street.....	3297.00
Walton Avenue.....	Rhodes Avenue.....	Columbus Street.....	2193.00
Waring Street.....	Payne Avenue.....	St. Clair Street.....	2057.33

TABLE NO. 7.  
SUMMARY OF THE WORK DONE BY THE ENGINEER'S DEPARTMENT DURING THE YEAR 1878.

NAME OF IMPROVEMENT.	CONTRACTOR.	COST.
Canal Waste-Wier, near new Canal Lock.....	L. F. Beers.....	\$ 1,033 03
Concrete Pavement Repairs.....	Columbus Paving Company.....	4,207 02
Columbus and Pearl Street Sewer. ....	Wood & Sons & Campbell.....	3,585 74
Cuyahoga River Dredging, above Upper Central Way Bridge.....	Sims & Smith.....	8,859 72
Cedar Avenue Sewer Repairs.....	Wood & Sons.....	180 00
Grading and Curbing, as per Table.....	.....	2,585 56
*Protection Piling at Weigh Lock.....	L. F. Beers.....	380 50
*River Lock, near new Weigh Lock.....	L. F. Beers.....	450 00
Stone Pavement Repairs.....	A. Campbell.....	882 57
Sewers, as per Table.....	.....	9,782 16
Viaduct, Stone Work.....	E. W. Ensign.....	253,205 54
Viaduct, Iron Bridges.....	Claffen & Sheldon.....	129,852 39
Viaduct, Engine Room Floor.....	Claffen & Sheldon.....	950 00
*Viaduct, Iron Stairway, Merwin Street.....	Claffen & Sheldon.....	850 00



TABLE NO. 7—CONTINUED.

NAME OF IMPROVEMENT.	CONTRACTOR.	COST.
*Viaduct, Iron Stairway, Piers 8 and 15.....	Woodhill & O'Gorman.....	\$ 2,319 30
Viaduct, Stone Pavement, Crosswalk, etc.....	Albion, Medina, Stone Company.....	31,425 16
Viaduct, Street Railroad.....	Albion, Medina, Stone Company.....	4,766 50
Viaduct, Flagging ... ..	Maxwell, McBride & Malone.....	3,987 65
Viaduct, Hand Railing.....	Lauderbach & Co.....	11,160 00
Viaduct, Steam Engine .....	W. H. Thompson.....	4,100 00
Viaduct, Sewers.....	John Mahon, Jr.....	2,278 14
Wood Pavement Repairs.....	Brennan, Wood & Campbell.....	9,572 76
Total.....		\$486,433 63

\*Not Completed January 1, 1879.



**ANNUAL REPORT**

**OF THE**

**STREET COMMISSIONER,**

**FOR THE**

**YEAR ENDING DEC. 31, 1878.**





# STREET COMMISSIONER'S REPORT.

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*To the Honorable City Council:*

GENTLEMEN:—The Street Commissioner herewith respectfully submits a statement in detail of the work performed and cost incurred in the Street Department for the year ending December 31st, 1878:

From this statement it will be seen that the cost of operating the Department for the past year is very much less than for many years before.

In order that you may fully realize the extent of the retrenchment which has taken place I have prepared a table showing the expenditures of the Department for substantially the same purposes during the last five years:

1874	-	-	-	-	\$ 96,041 57
1875	-	-	-	-	101,572 68
1876, for 11 months,	-	-	-	-	105,209 59
1877	-	-	-	-	60,741 97
1878	-	-	-	-	47,274 49

Thus it will be seen that the expenditures for last year were more than 50 per cent. less than for 1874, '75 and '76, making an absolute gain to the city of \$50,000. Two causes may be assigned for this difference. First, The great decrease in the price of labor from former years. Second, The contract system adopted on the cleaning of streets, avenues, alleys, catch-basins and market spaces.

Contracts have been secured for the performance of this work on terms exceedingly favorable to the city and for much less than it could possibly be done for under the old system.

In some instances the work may not have been done quite as well as where the Street Commissioner has direct control of and is immediately responsible for it ; still I think that with a short experience nearly all deficiencies can be corrected and the contract system rendered quite as efficient as the old method.

The cost of cleaning and repairing streets, avenues and alleys, exclusive of the work done under contract, is as follows:

Abbey Street	-	-	-	-	-	-	\$ 4 31
Ackley Street	-	-	-	-	-	-	29 38
Alabama Street	-	-	-	-	-	-	4 50
Atlantic Street	-	-	-	-	-	-	13 25
Ash Street	-	-	-	-	-	-	6 81
Auburn Street	-	-	-	-	-	-	11 25
Armitage Street	-	-	-	-	-	-	4 50
Axtell Street	-	-	-	-	-	-	11 25
Bank Street	-	-	-	-	-	-	3 75
Bailey Street	-	-	-	-	-	-	4 12
Barber Avenue	-	-	-	-	-	-	7 75
Berg Street	-	-	-	-	-	-	23 37
Becker Avenue	-	-	-	-	-	-	6 75
Bissell Street	-	-	-	-	-	-	4 50
Broadway	-	-	-	-	-	-	205 35
Bradford Street	-	-	-	-	-	-	124 91
Bridge Street	-	-	-	-	-	-	31 89
Branch Street	-	-	-	-	-	-	15 88
Brick Street	-	-	-	-	-	-	21 62
Brock Street	-	-	-	-	-	-	191 25
Brooklyn Street	-	-	-	-	-	-	20 75
Burton Street	-	-	-	-	-	-	52 27
Canal Street	-	-	-	-	-	-	113 12
Carroll Street	-	-	-	-	-	-	7 81
Case Avenue	-	-	-	-	-	-	1 00

Central Way	-	-	-	-	-	5 07
Chestnut Ridge Road	-	-	-	-	-	61 86
Chatham Street	-	-	-	-	-	24 57
Cedar Avenue	-	-	-	-	-	39 18
Chestnut Street	-	-	-	-	-	2 88
Cliff Street	-	-	-	-	-	22 25
Clark Avenue	-	-	-	-	-	289 25
City Dock	-	-	-	-	-	1 48
Clifton Street	-	-	-	-	-	6 63
Cross Street	-	-	-	-	-	38 14
Croton Street	-	-	-	-	-	12 00
Columbus Street	-	-	-	-	-	474 99
Concord Street	-	-	-	-	-	5 50
Cooper Street	-	-	-	-	-	2 76
Cornell Street	-	-	-	-	-	7 00
Courtland Street	-	-	-	-	-	2 00
Conrad Street	-	-	-	-	-	4 00
Cook Street	-	-	-	-	-	5 75
Davis Street	-	-	-	-	-	32 50
Davidson Street	-	-	-	-	-	19 88
Detroit Street	-	-	-	-	-	75
Dille Street	-	-	-	-	-	103 50
Dixon Street	-	-	-	-	-	5 25
Division Street	-	-	-	-	-	113 75
Duane Street	-	-	-	-	-	12 75
Eagle Street	-	-	-	-	-	11 50
East Madison Avenue	-	-	-	-	-	7 00
East Prospect Street	-	-	-	-	-	14 50
Ellenwood Street	-	-	-	-	-	12 75
Elm Street	-	-	-	-	-	13 00
Euclid Avenue	-	-	-	-	-	5 38
Fairmount Street	-	-	-	-	-	434 38
Fairfield Street	-	-	-	-	-	5 75
Frankfort Street	-	-	-	-	-	1 38
Forest Street	-	-	-	-	-	107 97

Fremont Street	-	-	-	-	-	-	18 12
Franklin Street Hill	-	-	-	-	-	-	199 43
Fowler Street	-	-	-	-	-	-	1 25
Front Street	-	-	-	-	-	-	15 64
Fourth Street	-	-	-	-	-	-	7 50
Franklin Alley	-	-	-	-	-	-	11 00
Fulton Street	-	-	-	-	-	-	2 00
Girard Street	-	-	-	-	-	-	3 12
Grand Avenue	-	-	-	-	-	-	67 00
Grove Street	-	-	-	-	-	-	10 25
Green Street	-	-	-	-	-	-	2 75
Harbor Street	-	-	-	-	-	-	18 50
Hanover Street	-	-	-	-	-	-	17 50
Hay Market	-	-	-	-	-	-	75 00
Hartford Street	-	-	-	-	-	-	15 94
Hamilton Street	-	-	-	-	-	-	16 37
Harrison Street	-	-	-	-	-	-	24 50
Hermann Street	-	-	-	-	-	-	46 00
Hicks Street	-	-	-	-	-	-	6 33
Hill Street	-	-	-	-	-	-	7 50
Hickox Street	-	-	-	-	-	-	1 87
Holmden Street	-	-	-	-	-	-	10 50
Hough Avenue	-	-	-	-	-	-	5 64
Hurd Street	-	-	-	-	-	-	22 49
Independence Street	-	-	-	-	-	-	203 55
Jay Street	-	-	-	-	-	-	5 25
Jennings Avenue	-	-	-	-	-	-	84 64
Jefferson Street	-	-	-	-	-	-	24 37
Jersey Street	-	-	-	-	-	-	5 19
Jones Avenue	-	-	-	-	-	-	2 50
Junction Street	-	-	-	-	-	-	16 13
Kinsman Street	-	-	-	-	-	-	8 49
Lake Street	-	-	-	-	-	-	13 50
Lexington Avenue	-	-	-	-	-	-	20 00
Linden Street	-	-	-	-	-	-	1 75

Literary Street	-	-	-	-	-	-	44 62
Lorain Street	-	-	-	-	-	-	228 75
Madison Avenue	-	-	-	-	-	-	2 25
Mayflower Street	-	-	-	-	-	-	5 00
Merchants' Avenue	-	-	-	-	-	-	6 93
Merwin Street	-	-	-	-	-	-	2 00
Milford Street	-	-	-	-	-	-	24 75
Mill Street	-	-	-	-	-	-	245 95
Munroe Street	-	-	-	-	-	-	23 63
Morse Avenue	-	-	-	-	-	-	1 25
McLane Street	-	-	-	-	-	-	15 19
Oakdale Street	-	-	-	-	-	-	15 50
Old River Street	-	-	-	-	-	-	93 50
Ontario Street	-	-	-	-	-	-	3 50
Orchard Street	-	-	-	-	-	-	9 06
Oregon Street	-	-	-	-	-	-	9 63
Parkman Street	-	-	-	-	-	-	2 87
Pelton Avenue	-	-	-	-	-	-	15 18
Pearl Street,	-	-	-	-	-	-	53 12
Petrie Street	-	-	-	-	-	-	1 50
Professor Street	-	-	-	-	-	-	5 63
Prim Street	-	-	-	-	-	-	48 25
Putnam Street	-	-	-	-	-	-	4 25
Quincy Street	-	-	-	-	-	-	16 00
Ravine Street	-	-	-	-	-	-	14 50
Rhodes Avenue	-	-	-	-	-	-	29 19
Rockwell Street	-	-	-	-	-	-	87
Rossiter Street-	-	-	-	-	-	-	5 63
Russia Street	-	-	-	-	-	-	35 94
Sawtell Avenue	-	-	-	-	-	-	12 12
Scoville Avenue	-	-	-	-	-	-	6 69
Scranton Avenue	-	-	-	-	-	-	37 38
Seymour Street	-	-	-	-	-	-	2 13
Sibley Street,	-	-	-	-	-	-	3 00
Slater Street,	-	-	-	-	-	-	3 50



The following table shows the cost of repairing and replacing all pavements by persons in the Street Department. This showing includes all expenditures for labor in replacing pavement removed; to lay, clean and repair all sewers and all pipes of every kind as well as for improving the street:

Alabama Street,	-	-	-	-	-	5 00
Alley at Court House,	-	-	-	-	-	3 88
Alley at rear of Engine House No. 2,	-	-	-	-	-	3 50
Broadway,	-	-	-	-	-	93 65
Bank Street,	-	-	-	-	-	35 24
Brownell Street,	-	-	-	-	-	17 11
Champlain Street,	-	-	-	-	-	32 08
Canal Street,	-	-	-	-	-	10 54
Columbus Street,	-	-	-	-	-	62 29
Central Way,	-	-	-	-	-	8 07
Central Place,	-	-	-	-	-	3 86
Center Street,	-	-	-	-	-	43 89
Central Market,	-	-	-	-	-	22 94
Cedar Avenue,	-	-	-	-	-	14 87
Commercial Street,	-	-	-	-	-	6 75
City Yard,	-	-	-	-	-	2 00
Detroit Street,	-	-	-	-	-	57 59
Euclid Avenue,	-	-	-	-	-	120 05
Erie Street,	-	-	-	-	-	63 89
Eagle Street,	-	-	-	-	-	7 17
Elm Street,	-	-	-	-	-	28 08
Front Street,	-	-	-	-	-	36 30
Frankfort Street,	-	-	-	-	-	10 00
Franklin Avenue,	-	-	-	-	-	34 51
Fulton Street,	-	-	-	-	-	5 75
Forest Street,	-	-	-	-	-	1 50
Grand Avenue,	-	-	-	-	-	3 75
Garden Street,-	-	-	-	-	-	51 67
Garden Court,	-	-	-	-	-	3 13
Hickox Street,	-	-	-	-	-	1 43

Hamilton Street,	-	-	-	-	-	3 00
Johnson Street,	.	-	-	-	-	3 00
Jefferson Street,	-	-	-	-	-	12 80
Kinsman Street,	-	-	-	-	-	53 75
Long Street, -	-	-	-	-	-	22 41
Lorain Street, -	-	-	-	-	-	24 77
Literary Street,	-	-	-	-	-	4 25
Lake Street, -	-	-	-	-	-	1 44
Meadow Street,	-	-	-	-	-	15 38
Merwin Street, -	-	-	-	-	-	69 93
Muirson Street,	-	-	-	-	-	1 69
Michigan Street,	-	-	-	-	-	28 74
Main Street,	-	-	-	-	-	5 76
Mulberry Street,	-	-	-	-	-	7 00
Ontario Street,	-	-	-	-	-	108 26
Ohio Street, -	-	-	-	-	-	16 51
Old River Street,	-	-	-	-	-	7 25
Perry Street, -	-	-	-	-	-	3 38
Prospect Street,	-	-	-	-	-	31 52
Pearl Street, -	-	-	-	-	-	48 65
Public Square,	-	-	-	-	-	37 04
Payne Avenue, -	-	-	-	-	-	4 25
River Street,	-	-	-	-	-	25 44
Rockwell Street,	-	-	-	-	-	32 93
St. Clair Street,	-	-	-	-	-	112 67
Sterling Avenue,	-	-	-	-	-	15 75
Seneca Street,	-	-	-	-	-	33 30
Superior Street, -	-	-	-	-	-	48 82
Superior Street Hill,	.	-	-	-	-	3 13
South Water Street,	-	-	-	-	-	9 25
Scranton Avenue, -	-	-	-	-	-	44 86
Union Street, -	-	-	-	-	-	55 74
Viaduct, -	-	-	-	-	-	8 50
Woodland Avenue,	-	-	-	-	-	90 50
West Street,	-	-	-	-	-	1 57



Wood Street, - - - - -	5 82
West River Street, - - - - -	8 45
Water Street, - - - - -	19 69
West Side Market, - - - - -	23 75
Puddling on Paved Streets, - - - - -	50 69
<hr/>	
Total, - - - - -	\$1,892 13

A large portion of this work was done for and charged to certain companies and private individuals. There have been paid during the year on these bills, and similar ones contracted in 1877, \$2,244 61. This money has all been paid into the City Treasury and placed to the credit of the Street Fund.

## STREET WORK UNDER CONTRACT.

*Old Contract.*

Ninth Estimate—12 538-1000 miles of streets cleaned at \$28 00, - - - - -	\$ 351 06
Tenth Estimate—654-1000 miles of streets cleaned at \$28 00, - - - - -	18 32
Eleventh Estimate—6 774-1000 miles of streets cleaned at \$28 00, - - - - -	189 67
Twelfth Estimate—19 843 1000 miles of streets cleaned at \$28 00, - - - - -	555 60
Thirteenth Estimate—19 936-1000 miles of streets cleaned at \$28 00, - - - - -	558 21
Fourteenth Estimate—25 134-1000 miles of streets cleaned at \$28 00, - - - - -	703 75
Fifteenth Estimate—38 938-1000 miles of streets cleaned at \$28 00, - - - - -	1,090 26
Sixteenth Estimate—32 828-1000 miles of streets cleaned at \$28 00, - - - - -	919 18
Seventeenth Estimate—48 390 1000 miles of streets cleaned at \$28 00, - - - - -	1,354 92

Eighteenth Estimate—40 961-1000 miles of streets cleaned at \$28 00,	-	-	-	-	1,146 91
Nineteenth Estimate—35 727-1000 miles of streets cleaned at \$28 00,	-	-	-	-	1,000 36
Twentieth Estimate—42 725-1000 miles of streets cleaned at \$28 00,	-	-	-	-	1,196 30
Twenty-first Estimate—20 263 1000 miles of streets cleaned at \$28 00,	-	-	-	-	567 36
Twenty-second Estimate—18 315-1000 miles of streets cleaned at \$28 00,	-	-	-	-	512 82
Twenty-third Estimate—12 941-1000 miles of streets cleaned at \$28 00,	-	-	-	-	362 35
Twenty-fourth Estimate—35 331-1000 miles of streets cleaned at \$28 00,	-	-	-	-	989 27
Twenty-fifth Estimate—21 601-1000 miles of streets cleaned at \$28 00,	-	-	-	-	604 83
Twenty-sixth Estimate—579-1000 miles of streets cleaned at \$28 00,	-	-	-	-	16 21
Extra Work as per Estimate No. 9,	•	-	-	-	30 00
.. .. " " " 10,	-	-	-	-	36 48
.. .. " " " 20,	-	-	-	-	120 00
.. .. " " " 22,	-	-	-	-	315 89
.. .. " " " 23,	-	-	-	-	76 00
.. .. " " " 25,	-	-	-	-	617 08
.. .. " " " 26,	-	-	-	-	30 00
Total,	-	-	-	-	\$13,362 83

*New Contract.*

Cleaning and repairing the paved streets east of the Cuyahoga River.

First Estimate—11 354-1000 miles of streets cleaned at \$22 50,	-	-	-	-	\$255 46
Second Estimate—13 996-1000 miles of streets cleaned at \$22 50,	-	-	-	-	314 91

Third Estimate—7 646-1000 miles of streets cleaned	
at \$22 50, . . . . .	\$172 04
Fourth Estimate — 18 467-1000 miles of streets	
cleaned at \$22 50, . . . . .	415 51
Fifth Estimate—1 984-1000 miles of streets cleaned	
at \$22 50, . . . . .	44 64
Sixth Estimate—1 515-1000 miles of streets cleaned	
at \$22 00, . . . . .	33 33
Extra Work, as per Estimate No. 4. . . . .	77 44
Total, . . . . .	<u>\$1,313 33</u>

Cleaning and repairing the streets west of the Cuyahoga River:

First Estimate—2 753-1000 miles of paved streets	
cleaned at \$20 00, . . . . .	55 06
Second Estimate—2 868 1000 miles of paved streets	
cleaned at \$20 00, . . . . .	57 36
Third Estimate—2 516-1000 miles of paved streets	
cleaned at \$20 00, . . . . .	50 32
And 1 730-1000 miles of unpaved streets cleaned at	
\$17 00, . . . . .	29 41
Fourth Estimate—5 920-1000 miles of paved streets	
cleaned at \$20 00, . . . . .	118 40
And 4 064 1000 miles of unpaved streets cleaned at	
\$17 00 . . . . .	68 78
Fifth Estimate — Three miles of paved streets	
cleaned at \$20 00, . . . . .	60 00
Sixth Estimate—132-1000 miles of unpaved streets	
cleaned at \$17 00, . . . . .	2 24
Extra Work as per Estimate No. 1, . . . . .	425 59
.. .. " " " 2, . . . . .	408 82
.. .. " " " 3, . . . . .	300 65
.. .. " " " 4, . . . . .	192 65
.. .. " " " 5, . . . . .	46 51
.. .. " " " 6, . . . . .	83 20
Total, . . . . .	<u>\$ 1,898 99</u>

Cleaning and repairing the unpaved streets east of the Cuyahoga river:

First Estimate—1,780 cubic yards of earth filling at	
20 cents . . . . .	356 00
Second Estimate—869 cubic yards of sand filling at	
20 cents . . . . .	173 80
And 131 cubic yards cinder at 20 cents, . . . . .	39 30
Third Estimate—602 cubic yards of cinder at 30	
cents . . . . .	180 60
And 530 yards of earth filling at 18 cents, . . . . .	95 40
Fourth Estimate—1 387-1000 miles of streets cleaned	
at \$20 00, . . . . .	27 74
Extra repairs on streets, . . . . .	272 17
Fifth Estimate—65 cubic yards of cinder at 30	
cents . . . . .	19 50
And 44 cubic yards of broken stone at 60 cents, . . . . .	26 40
Sixth Estimate—1,021 $\frac{1}{4}$ cubic yards of cinder at 30	
cents . . . . .	306 38
Extra repairs on streets . . . . .	7 13
Total . . . . .	<hr/> \$ 1,504 42

MARKET GROUNDS CLEANING UNDER CONTRACT.

*Old Contract.*

January, Estimates 6 and 7 . . . . .	\$68 54
February, " 8 and 9 . . . . .	68 54
March, " 10 and 11 . . . . .	68 54
April, " 12 and 13 . . . . .	68 53
May, " 14 and 15 . . . . .	68 54
June, " 16 and 17 . . . . .	68 54
July, " 18 and 19 . . . . .	68 54
August, " 20, 21, 22 . . . . .	102 81
September, " 23 and 24 . . . . .	68 54
October, " 25 . . . . .	167 53

*New Contract.*

November, Estimates 1, 2 and 3	-	-	-	72	17
December, " 4 and 5	-	-	-	48	12
Total	-	-	-	-	\$ 938 94

## CATCH BASIN CLEANING UNDER CONTRACT.

*Old Contract.*

January,	-	-	-	-	-	\$ 231 24
February,	-	-	-	-	-	231 23
March,	-	-	-	-	-	346 90
April,	-	-	-	-	-	231 25
May,	-	-	-	-	-	231 23
June,	-	-	-	-	-	231 24
July,	-	-	-	-	-	231 25
August,	-	-	-	-	-	680 26

*New Contract.*

November,	-	-	-	-	-	207 60
December,	-	-	-	-	-	69 20
Total,	-	-	-	-	-	\$2,691 40

## CATCH BASINS.

The Catch Basins repaired during the year and the items of cost are given below:

Broadway	-	-	-	-	-	\$4 50
Buell Street	-	-	-	-	-	1 56
Bridge Street at Root Street	-	-	-	-	-	3 00
Birch Street	-	-	-	-	-	9 50
Barber Avenue at Columbus Street	-	-	-	-	-	5 15
Columbus Street	-	-	-	-	-	3 00
Cedar Street at Blair Street	-	-	-	-	-	10 45
Columbus Street at Walworth Run Bridge	-	-	-	-	-	4 75
Canfield Street	-	-	-	-	-	2 87

Cedar Avenue	-	-	-	-	-	144 49
Dodge Street	-	-	-	-	-	2 88
Dodge Street at Superior Street	-	-	-	-	-	3 88
Dodge Street at Huntington Street	-	-	-	-	-	12 00
Elm Street at Willow Street	-	-	-	-	-	6 00
Elm Street at Spruce Street	-	-	-	-	-	18 00
Euclid Avenue	-	-	-	-	-	5 88
Euclid Avenue at Mayfield Street	-	-	-	-	-	3 00
Euclid Avenue at Walter Street	-	-	-	-	-	3 00
Euclid Avenue at Wade Park	-	-	-	-	-	3 12
Euclid Avenue at Doan Street	-	-	-	-	-	3 13
Euclid Avenue at Kennard Street	-	-	-	-	-	6 25
Euclid Avenue at Case Avenue	-	-	-	-	-	4 69
Euclid Avenue opposite No. 759	-	-	-	-	-	1 56
Euclid Avenue at Perry Street	-	-	-	-	-	1 56
Euclid Avenue opposite No. 686	-	-	-	-	-	7 81
Front Street at River Street	-	-	-	-	-	9 95
Front Street at Meadow Street	-	-	-	-	-	12 50
Front Street at Spring Street	-	-	-	-	-	6 25
Front Street	-	-	-	-	-	11 63
Forest Street at Woodland Avenue	-	-	-	-	-	6 00
Forest Street at Croton Street	-	-	-	-	-	6 80
Forest Street at Concord Street	-	-	-	-	-	4 50
Frankfort Street	-	-	-	-	-	6 75
Garden Street at Calvert Street	-	-	-	-	-	9 00
Hamilton Street at Lawrence Street	-	-	-	-	-	4 49
Hamilton Street at Alabama Street	-	-	-	-	-	3 01
Hicks Street at Bridge Street	-	-	-	-	-	9 00
Irving Street	-	-	-	-	-	2 88
Jefferson Street	-	-	-	-	-	3 00
Lorain Street at No. 242	-	-	-	-	-	7 00
Lorain Street at Waverly Street	-	-	-	-	-	16 08
Lake Street at Canfield Street	-	-	-	-	-	7 81
Lake Street at Briggs Street	-	-	-	-	-	6 25
Mill Street	-	-	-	-	-	87
Mulberry Street at Spruce Street	-	-	-	-	-	9 00

REPORT OF THE STREET COMMISSIONER.

117

Muirson Street at Chestnut Street	-	-	-	3 00
Muirson Street at St. Clair Street	-	-	-	5 60
Main Street at Mulberry Street	-	-	-	6 00
Ontario Street at Public Square	-	-	-	4 01
Perry Street at Superior Street	-	-	-	7 50
Pear Street at Munroe Street	-	-	-	6 00
Pear Street at Freeman Street	-	-	-	6 00
Pearl Street at Franklin Street	-	-	-	6 00
Pearl Street	-	-	-	2 87
Pearl Street at Church Street	-	-	-	3 00
Pearl Street at Carroll Street	-	-	-	15 00
Rockwell Street at Wood Street	-	-	-	7 75
Superior Street at Wason Street	-	-	-	13 49
Superior Street at Dodge Street	-	-	-	9 26
Sterling Avenue	-	-	-	6 00
Seneca Street	-	-	-	2 13
St. Clair Street	-	-	-	4 50
Superior Street at Water Street	-	-	-	3 05
Superior Street at Sterling Avenue	-	-	-	9 38
Superior Street at South Water Street	-	-	-	6 25
St. Clair Street at Sterling Avenue	-	-	-	10 93
St. Clair Street opposite No. 450	-	-	-	3 13
St. Clair Street opposite No. 449	-	-	-	3 13
St. Clair Street at Dodge Street	-	-	-	18 75
St. Clair Street at Canfield Street	-	-	-	24 75
St. Clair Street at Minnesota Street	-	-	-	16 65
Sheriff Street at Prospect Street	-	-	-	6 85
Tod Street near A. & G. W. R. R.	-	-	-	3 00
Water Street at Johnson Street	-	-	-	7 81
Water Street at Mandrake Street	-	-	-	6 25
Wood Street near St. Clair Street	-	-	-	7 00
Waverly Street at Bridge Street	-	-	-	31 13
York Street	-	-	-	3 15
Not Stated	-	-	-	109 50
Total				<hr/> \$793 62

## SEWERS.

The cost of repairing and cleaning sewers under the direction of this Department, was as follows:

Bolivar Street, at No. 32,	-	-	-	-	\$ 13 90
Cedar Avenue near Perry Street,		-	-		21 15
Forest Street at Concord Street,	-	-	-		67 68
Herman Street at Gordon Street,	-	-	-		27 75
Lighthouse Street Hill,	-	-	-	-	157 00
Merwin Street,	-	-	-	-	14 37
Merwin Street at Center Street,	-	-	-	-	163 90
Mulberry Street,	-	-	-	-	278 97
Putnam Street near Gordon Street,		-	-		43 65
River Street at St. Clair Street,	-	-	-		98 80
St. Clair Street near Dodge Street,	-	-	-		19 50
Water Street at Superior Street,	-	-	-		12 25
Total,	-	-	-	-	<hr/> \$918 92

## FLUSHING SEWERS.

Ash Alley at Prospect Street,	-	-	-	-	\$ 22 75
Alley between Euclid Avenue and Prospect Street,					
Running from Perry to Huntington Street,				-	26 00
Birch Street,	-	-	-	-	37 69
Birch Street at Franklin Street,	-	-	-	-	19 50
Bank Street at Superior Street,	-	-	-	-	16 25
Chestnut Street,	-	-	-	-	4 25
Canal Street,	-	-	-	-	11 50
Cedar Avenue,	-	-	-	-	45 50
Champlain Street,	-	-	-	-	6 50
Cheshire Street,	-	-	-	-	3 26
Eagle Street Hill,	-	-	-	-	2 25
Euclid Avenue,	-	-	-	-	38 00
Franklin Street,	-	-	-	-	13 00
Frankfort Street,	-	-	-	-	6 50
Garden Street,	-	-	-	-	4 25



Huntington Street.	-	-	-	-	-	4 00
Hamilton Street,	-	-	-	-	-	6 50
High Street at Middle Street.	-	-	-	-	-	13 00
Lake Street.	-	-	-	-	-	6 50
Long Street.	-	-	-	-	-	3 26
Mulberry Street,	-	-	-	-	-	72 81
Mulberry Street at Old River Street,	-	-	-	-	-	165 75
Merwin Street,	-	-	-	-	-	1 25
Prospect Street,	-	-	-	-	-	78 01
Public Square,	-	-	-	-	-	26 00
Rockwell Street,	-	-	-	-	-	13 00
St. Clair Street,	-	-	-	-	-	31 39
Spruce Street,	-	-	-	-	-	19 50
Superior Street,	-	-	-	-	-	326 00
Seneca Street,	-	-	-	-	-	6 50
Scoville Avenue,	-	-	-	-	-	58 50
Walnut Street,	-	-	-	-	-	6 50
Wood Street,	-	-	-	-	-	13 00
Water Street,	-	-	-	-	-	19 51
Woodland Avenue,	-	-	-	-	-	6 50
						<hr/>
Total,	-	-	-	-	-	\$811 94

## LUMBER ACCOUNT.

The purposes for which lumber is used in this Department are principally for culverts and drains, sheathing the roadway of bridges and repairing paved streets. The cost for all pur-

poses during the year was as follows :

Lumber for culverts, drains, etc.,	-	-	\$1,321 57
Lumber for bridges,	-	-	1,103 15
Blocks for repairs on paved streets,	-	-	736 00
Measuring lumber,	-	-	13 82
			<hr/>
Total	-	-	\$3,174 54

## CULVERT REPAIRS.

The cost of work done in this Department in building, repairing and cleaning culverts and drains in 1878 and the points at which it was performed are as follows :

Bradford Street,	-	-	-	-	-	-	\$87 69
Cliff Street,	-	-	-	-	-	-	2 87
Clark Avenue,	-	-	-	-	-	-	15 25
Croton Street,	-	-	-	-	-	-	5 75
Carr Street,	-	-	-	-	-	-	14 00
Eagle Street,	-	-	-	-	-	-	3 50
East Prospect Street,	-	-	-	-	-	-	20 12
Grand Avenue,	-	-	-	-	-	-	4 50
Harvard Street at Vandyke Street,	-	-	-	-	-	-	95 00
Independence Street,	-	-	-	-	-	-	30 75
Merwin Street,	-	-	-	-	-	-	2 88
Payne Avenue,	-	-	-	-	-	-	4 50
Petrie Street,	-	-	-	-	-	-	3 50
Quincy Street,	-	-	-	-	-	-	7 00
Union Street,	-	-	-	-	-	-	11 25
Superior Street,	-	-	-	-	-	-	51 00
							<hr/>
Total	-	-	-	-	-	-	\$359 56

## BRIDGES.

The following statement shows the amount expended on account of bridge repairs under direction of the Street Commissioner:

Canal Bridge,	-	-	-	-	-	\$23 63
Center Street Bridge,	-	-	-	-	-	66 69
Columbus Street Bridge,	-	-	-	-	-	84 50
Eagle Street Bridge,	-	-	-	-	-	8 00
Jefferson Street Bridge,	-	-	-	-	-	69 25
Lower Central Way Bridge,	-	-	-	-	-	16 13
Main Street Bridge,	-	-	-	-	-	55 87
Seneca Street Bridge,	-	-	-	-	-	72 11

South Water Street Bridge,	-	-	-	-	32	13
Upper Central Way Bridge,	-	-	-	-	30	00
Walworth Run Bridge,	-	-	-	-	32	37
Willow Street Bridge,	-	-	-	-	79	38
Winslow Street Bridge,	-	-	-	-	6	25
Total,	-	-	-	-	\$576	31

## CROSSWALKS.

The following statement shows the crosswalks laid and repaired during 1878 and the cost:

Alabama Street,	-	-	-	-	-	\$ 3	37
Bridge Street,	-	-	-	-	-	10	85
Barber Avenue,	-	-	-	-	-	12	25
Buhrer Street at Jennings,	-	-	-	-	-	9	90
Branch Street Jennings,	-	-	-	-	-	18	70
Bond Street at Summit Street,	-	-	-	-	-	15	84
Bank Street at Lake Street,	-	-	-	-	-	45	00
Croton Street,	-	-	-	-	-		87
Columbus Street,	-	-	-	-	-	2	13
Chatham Street,	-	-	-	-	-	2	00
Clifton Street,	-	-	-	-	-		13
Church Street,	-	-	-	-	-	2	87
Cedar Avenue,	-	-	-	-	-	3	62
Columbus Street at Brainard Street,	-	-	-	-	-	24	28
Clark Avenue at Jennings Avenue,	-	-	-	-	-	18	70
Castle Street at Jennings Avenue,	-	-	-	-	-	18	70
Dodge Street,	-	-	-	-	-	2	12
Detroit Street,	-	-	-	-	-	2	88
Erie Street at Summit Street,	-	-	-	-	-	15	18
Franklin Street Hill,	-	-	-	-	-	15	20
Forest Street,	-	-	-	-	-	2	88
Hamilton Street,	-	-	-	-	-	3	75
Franklin Street,	-	-	-	-	-	3	75
Jersey Street,	-	-	-	-	-	2	13

Jersey Street at Jennings Avenue,	-	-	-	18	70
John Street at Harbor Street,	-	-	-	21	00
Literary Street,	-	-	-	2	87
Mayflower Street,	-	-	-	2	25
Merwin Street at Central Street,	-	-	-	8	40
Mill Street at York Street,	-	-	-	9	45
Orange Street,	-	-	-	15	01
Ontario Street,	-	-	-	15	00
Ontario Street at Summit Street,	-	-	-	16	17
Payne Avenue at Muirson Street,	-	-	-	36	67
Payne Avenue at Case Avenue,	-	-	-	39	60
Public Square at Superior Street,	-	-	-	115	29
Quincey Street,	-	-	-	5	50
Rockwell Street,	-	-	-	7	00
Rowley Street,	-	-	-	9	90
Sheriff Street at Huron Street,	-	-	-	8	00
Starkweather Avenue,	-	-	-	18	70
Scott Street,	-	-	-	1	93
Scranton Avenue,	-	-	-	5	13
Superior Street,	-	-	-	2	87
State Street,	-	-	-	40	37
Taylor Street at Clinton Street,	-	-	-	6	80
Vermont Street at State Street,	-	-	-	15	60
West River Street,	-	-	-	1	38
Walworth Run Bridge,	-	-	-	28	44
Willey Street,	-	-	-	18	70
Wood Street at Summit Street,	-	-	-	13	86
York Street at Jay Street,	-	-	-	17	60
York Street at Vestry Street,	-	-	-	23	90
Not stated,	-	-	-	5	76
Materials for crosswalks,	-	-	-	152	00
Total,	-	-	-	8920	95

## SALARIES OF OFFICERS.

The following were the expenditures on account of salaries of officers not reported in the labor account :

Salary of Street Commissioner,	-	-	-	\$2,500 00
Salary of Assistant,	-	-	-	1,200 00
Salary of Clerks,	-	-	-	804 41
Salary of Superintendent of Catch Basins,	-	-	-	884 25
Salary of Superintendent of Streets,	-	-	-	626 00
Salary of Superintendent of repairs on paved streets,	-	-	-	775 00
Total,	-	-	-	<u>\$6,789 66</u>

## MISCELLANEOUS.

The following are miscellaneous items of expenditure not admitting of classification:

Brick for Street Commissioner's yard,	-	-	-	\$20 00
Inspecting street lamps,	-	-	-	36 00
Moving house on Bentley Alley,	-	-	-	45 00
Hardware for culverts, drains, etc.,	-	-	-	421 04
Sharpening picks,	-	-	-	41 73
Rent of lot on Michigan Street,	-	-	-	337 50
Stationery,	-	-	-	16 89
City yard (including repairs and janitor,)	-	-	-	736 48
Building and cleaning stairways,	-	-	-	45 13
Cleaning snow from sidewalks, box gutters and stairways,	-	-	-	56 72
Cleaning ditches,	-	-	-	20 44
Lime and cement,	-	-	-	66 78
Sundry small bills	-	-	-	66 72
Total	-	-	-	<u>\$1,910 43</u>

## SUMMARY.

The following summary shows the total expenditure under the direction of the Street Commissioner:

Streets, avenues and alleys,	-	-	-	\$6,606 27
Street work under contract,	-	-	-	18,079 57

Repairing paved streets.	-	-	-	-	-	1,892	13
Market Grounds cleaning,	-	-	-	-	-	938	94
Catch Basins,	-	-	-	-	-	793	62
Catch Basin cleaning under contract,	-	-	-	-	-	2,691	40
Sewers,	-	-	-	-	-	1,730	86
Lumber,	-	-	-	-	-	3,174	54
Culverts,	-	-	-	-	-	359	56
Bridges,	-	-	-	-	-	576	31
Crosswalks,	-	-	-	-	-	920	95
Salaries of Officers,	-	-	-	-	-	6,789	66
Miscellaneous,	-	-	-	-	-	1,910	43
							<hr/>
Total,	-	-	-	-	-	\$46,464	24

Respectfully submitted,

JACOB BITTEL,  
*Street Commissioner.*

ANNUAL REPORT  
OF THE  
CITY AUDITOR,  
OF THE  
CITY OF CLEVELAND,  
FOR THE FISCAL YEAR ENDING DEC. 31, 1878.





# CITY AUDITOR'S REPORT.

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CLEVELAND, O., FEBRUARY 24, 1879.

*To the Honorable City Council:*

GENTLEMEN:—As required by Section 15, chapter 3, of the Codified Ordinances of 1877, I herewith submit the Annual Report of the finances of the City of Cleveland for 1878, embracing statements showing as follows:

1. A general exhibit.—Table No. 1.
2. An analysis of the resources and disbursements of the general funds for 1878.—Table No. 2.
2. The condition of all funds and accounts, January 1, 1879.—Table No. 3.
4. The amount and maturity of all bonds issued in 1878.—Table No. 4.
5. The amount and maturity of general bonds outstanding January 1, 1879.—Table No. 5.
6. The amount and maturity of street improvement bonds issued in 1878.—Table No. 6.
7. The amount and maturity of street improvement bonds outstanding January 1, 1879.—Table No. 7.
8. The amount and maturity of street damage bonds issued in 1878.—Table No. 8.
9. The amount and maturity of street damage bonds outstanding January 1, 1879.—Table No. 9.
10. The amount and maturity of sewer bonds issued in 1878.—Table No. 10.
11. The amount and maturity of sewer bonds outstanding January 1, 1879.—Table No. 11.
12. Recapitulation of bonds outstanding January 1, 1879.—Table No. 12.
13. A statement of certified estimates unpaid January 1, 1879.—Table No. 13.
14. Principal and interest of all bonds maturing in each month of 1879.—Table No. 14.

TABLE No. 2.—Continued.

		Bal. Cash on hand Jan. 1, 1879.
<b>FIRE DEPARTMENT.</b>		
<i>Resources</i> —	Balance Cash on hand January 1, 1878.....	\$ 23,865 91
	Taxes .....	154,332 56
	Cash Deposits by Secretary .....	2,400 70
		\$ 183,599 17
<i>Disbursements</i> —	Ordinary Expenses.....	146,714 94
	Special Taxes .....	1,470 70
	Bills of 1877 paid in 1878.....	11,784 80
		159,970 44
		\$ 33,628 73
<b>GENERAL FUND.</b>		
<i>Resources</i> —	Balance Cash on hand January 1, 1878.....	\$ 20,962 50
	Taxes .....	35,075 58
	Transfer from Market Fund .....	85,000 00
	City Hall and other rents collected.....	8,058 18
	Reimbursement from special assessments .....	6,716 28
	Receipts from Hay Scales, Licenses, etc.....	7,221 16
		\$ 163,033 70
<i>Disbursements</i> —	Ordinary Expenses.....	116,470 51
	Payment of special taxes.....	3,370 34
	" " Costs of Court.....	2,758 71
	" " Damages by order of City Council.....	650 00
	Temporary Payments .....	2,104 28
	Bills of 1877 paid in 1878.....	6,723 15
		\$ 132,076 97
		30,956 73
<b>GAS FUND.</b>		
<i>Resources</i> —	Balance Cash on hand January 1, 1878.....	\$ 24,047 58
	Taxes .....	106,228 74
	Transfer from Market Fund.....	10,000 00
	Amount paid by A. & G. W. Ry. Co. for lighting crossings.....	474 09
	Amount paid for broken glass in lamp.....	26
		\$ 139,748 06

<i>Disbursements</i> Ordinary Expenses.....	105,000 04	
New lamp-posts and lanterns.....	3,235 00	
Bills of 1877 paid in 1878.....	22,878 49	
	<u>131,314 19</u>	8,444 47

HOUSE OF CORRECTION.

<i>Resources</i> - Balance Cash on hand January 1, 1878.....	\$ 28,730 00	
Taxes.....	17,537 80	
From County -for care of prisoners, etc.....	10,255 70	
Cash deposits by Superintendent.....	82,254 77	
	<u>\$ 138,788 17</u>	
<i>Disbursements</i> Ordinary Expenses.....	108,355 21	
Permanent Improvements.....	5,400 11	
Bills of 1877 paid in 1878.....	19,058 50	
	<u>132,813 82</u>	5,974 29

INTEREST FUND.

<i>Resources</i> - Balance Cash on hand January 1, 1878.....	\$ 45,670 65	
Taxes.....	408,876 75	
From Water Works Fund.....	35,000 00	
Accrued Interest on General Bonds issued 1878.....	6,885 00	
From A. & G. W. Ry. Co. acct. West River Street.....	4,323 50	
	<u>\$ 494,756 90</u>	
<i>Disbursements</i> - Payment of Interest on General Bonds.....	417,237 24	81,519 32

INFIRMARY FUND.

<i>Resources</i> - Taxes.....	\$ 70,151 17	
From County--for board of paupers, etc.....	5,101 10	
Receipts from Licenses, etc.....	8,363 73	
	<u>\$ 83,616 00</u>	
<i>Disbursements</i> Balance overdrawn January 1, 1878.....	4,011 54	
Permanent Improvements.....	1,491 45	
Ordinary Expenses of 1878.....	49,197 29	
Bills of 1877 paid in 1878.....	9,284 89	
	<u>63,985 17</u>	19,630 83

TABLE NO. 2.—Continued.

		Bal. Cash on hand Jan. 1, 1879.
<b>FIRE DEPARTMENT.</b>		
<i>Resources</i> —		
Balance Cash on hand January 1, 1878.....	\$ 38,885 91	
Taxes .....	154,332 56	
Cash Deposits by Secretary.....	2,400 70	
	<u>\$ 183,599 17</u>	
<i>Disbursements</i>		
Ordinary Expenses.....	148,714 94	
Special Taxes .....	1,470 70	
Bills of 1877 paid in 1878.....	11,784 80	
	<u>159,970 44</u>	\$ 33,628 73
<b>GENERAL FUND.</b>		
<i>Resources</i> —		
Balance Cash on hand January 1, 1878.....	\$ 20,962 50	
Taxes .....	36,075 58	
Transfer from Market Fund .....	85,000 00	
City Hall and other rents collected.....	8,058 18	
Reimbursement from special assessments .....	6,716 28	
Receipts from Hay Scales, Licenses, etc.....	7,221 16	
	<u>\$ 163,033 70</u>	
<i>Disbursements</i> —		
Ordinary Expenses.....	116,470 51	
Payment of special taxes.....	3,370 34	
“ “ Costs of Court.....	2,758 71	
“ “ Damages by order of City Council.....	650 00	
Temporary Payments.....	2,104 28	
Bills of 1877 paid in 1878.....	6,723 15	
	<u>\$ 132,076 97</u>	30,956 73
<b>GAS FUND.</b>		
<i>Resources</i> —		
Balance Cash on hand January 1, 1878.....	\$ 24,047 58	
Taxes .....	105,228 74	
Transfer from Market Fund.....	10,000 00	
Amount paid by A. & G. W. Ry. Co. for lighting crossings.....	474 09	
Amount paid for broken glass in lamp.....	25	
	<u>\$ 139,748 03</u>	

<i>Disbursements</i>	Ordinary Expenses.....	106,050 04
	New lamp-posts and lanterns.....	3,235 06
	Bills of 1877 paid in 1878.....	22,378 40
		<u>131,664 10</u>
		8,444 47

## HOUSE OF CORRECTION.

<i>Resources</i>	Balance Cash on hand January 1, 1878.....	\$ 22,720 00
	Taxes.....	17,597 80
	From County—for care of prisoners, etc.....	10,255 70
	Cash deposits by Superintendent.....	82,254 77
		<u>\$ 132,708 17</u>
<i>Disbursements</i>	Ordinary Expenses.....	106,385 21
	Permanent Improvements.....	5,400 11
	Bills of 1877 paid in 1878.....	19,058 56
		<u>132,843 88</u>
		5,874 29

## INTEREST FUND.

<i>Resources</i>	Balance Cash on hand January 1, 1878.....	\$ 45,070 65
	Taxes.....	402,876 75
	From Water Works Fund.....	35,000 00
	Accrued Interest on General Bonds issued 1878.....	6,805 00
	From A. & C. W. Ry. Co. acct. West River Street.....	4,323 50
		<u>\$ 494,756 50</u>
<i>Disbursements</i>	Payment of Interest on General Bonds.....	417,297 24
		<u>81,519 26</u>

## INFIRMARY FUND.

<i>Resources</i>	Taxes.....	\$ 70,151 17
	From County—for board of paupers, etc.....	5,101 10
	Receipts from Licenses, etc.....	8,353 73
		<u>\$ 83,616 00</u>
	By J. 1878.....	4,011 54
		1,491 45
		40,197 20
		<u>68,905 17</u>
		19,690 83

TABLE NO. 2.—Continued.

		Bal. Cash on hand Jan. 1, 1879.
MARKET FUND.		
<i>Resources</i> —		
Balance Cash on hand January 1, 1878.....	\$ 111,271 51	
Market Rents and Premiums.....	23,052 70	\$ 134,324 21
<i>Disbursements</i> —		
Ordinary Expenses.....	7,930 22	
Transferred to General Fund.....	85,000 00	
“ Gas Fund.....	10,000 00	
Special Taxes paid in 1878.....	3,813 80	
Bills of 1877 paid in 1878 .....	1,475 41	108,219 43
		\$ 26,104 78
POLICE COURT FUND.		
<i>Resources</i> —		
Balance Cash on hand January 1, 1878.....	\$ 1,823 55	
Fines, etc., deposited by Police Clerk .....	9,234 86	\$ 11,058 41
<i>Disbursements</i> —		
Ordinary Expenses.....	8,608 90	
Bills of 1877 paid in 1878.....	775 13	9,382 03
		\$ 1,676 38
PARK FUND.		
<i>Resources</i> —		
Balance Cash on hand January 1, 1878.....	\$ 13,048 00	
Taxes .....	3,507 56	
Warrants not used.....	167 25	
<i>Disbursements</i> —		
Ordinary Expenses .....	6,003 57	\$ 16,773 41
Permanent Improvements .....	454 78	
Bills of 1877 paid in 1878 .....	184 72	6,643 07
		\$ 10,130 34

POLICE DEPARTMENT.

<i>Resources</i> —	Balance Cash on hand January 1, 1878.....	\$ 19,864 39	
	Taxes .....	150,825 00	
	Special Tax—Sanitary.....	63 97	
	Cash Deposits by Secretary Board of Health.....	354 00	
	Warrants not used .....	127 11	
		<u>\$ 170,787 47</u>	
<i>Disbursements</i> —	Ordinary Expenses.....	155,148 71	
	Bills of 1877 paid in 1878.....	2,400 00	
		<u>157,548 71</u>	13,188 76

SINKING FUND.

<i>Resources</i> —	Balance Cash on hand January 1, 1878.....	\$ 4,029 44	
	Taxes .....	168,362 79	
		<u>\$ 172,392 23</u>	
<i>Disbursements</i> —	Payment of General Bonds.....	160,000 00	
		<u>160,000 00</u>	12,362 23

STREET DEPARTMENT.

<i>Resources</i> —	Balance Cash on hand January 1, 1878....	\$ 14,457 37	
	Taxes .....	63,138 05	
	Rent collected for lot on Michigan Street.....	375 00	
	Dog Tax .....	5,000 00	
	Collections account Street Repairs.....	2,244 61	
	Amount retained on Warrant No. 2284.....	265 99	
		<u>\$ 85,479 02</u>	
<i>Disbursements</i> —	Ordinary Expenses.....	47,234 49	
	Repairs of Paved Streets.....	16,186 55	
	Bills of 1877 paid in 1878 .....	3,768 54	
		<u>67,189 58</u>	18,289 44
		.....	<u>\$ 273,244 29</u>
	Total Cash Credit to above Funds January 1, 1879.....		

TABLE No. 2.—Continued.

Bal. Cash on hand Jan. 1, 1879.	
WATER WORKS DEPARTMENT.	
Resources	
Balance Cash on hand January 1, 1878	\$ 55,101 22
Cash Deposits by Secretary	105,003 45
	\$ 220,104 67
Disbursements—	
Pipe Extension	27,257 58
General Repairs	5,878 33
Office and General Expenses.	21,738 98
Engine House Repairs	1,057 90
Water Meters	1,720 56
Interest	1,923 50
Construction.	8,239 87
Crib Superstructure	16,612 86
Crib Protection	10,920 98
New Boilers	18,838 37
Crib Repairs	15,619 37
Engine House Expense	24,853 06
Transfer to Interest Fund	35,000 00
	189,170 36
	\$ 30,934 31



TABLE No. 3.  
STATEMENT OF THE CONDITION OF THE VARIOUS FUNDS OF THE CITY OF CLEVELAND ON THE  
FIRST DAY OF JANUARY, 1879.

	Amount of Bonds (out- standing Jan. 1, 1879.	Amount of (ex- cess of) paid into (out- standing) Jan. 1, 1879.	Balance Debit Janu'y 1, 1879.	Balance Credit Janu'y 1, 1879.	Disburse'm'ts Receipts for for the the Year 1878. Year 1879.	Am't Due from Street Companies.	Amount Overdrawn January 1, 1879.	Cash on Hand Jan. 1, 1879.
and Culverts	\$ 4,400 00		\$ 677 44		\$ 1,415 00	\$ 2,100 45	\$ 141 99	
do.			96 98		812 48		409 45	
do.	11,700 00		3,250 77	280 19	4,770 00	6,353 63	287 14	51 78
do.			3,937 41		183 00	6 54	602 88	
do.			2,002 68		44 56	2,379 14	2,041 14	
do.	147,000 00		2,765 10		1,926 00	1,867 54		
do.			4,284 80		46,685 31	53,324 53		4,143 71
do.	400 00		132 52		2,729 80	6,381 96	542 44	
do.			6,233 63		456 00	523 20	68 32	
do.			2,534 96			410 32	5,872 31	
do.	156,500 00		5,733 69		63,016 99	68,066 01	16,917 94	
do.					33,356 65	41,670 51		2,069 97
do.		699 83			20 54	723 13		702 59
do.	15,000 00		712 53		6,434 02	11,490 16		4,343 51
do.			467 16			77 75	406 41	
do.	2,500 00		616 66		4,967 67	4,911 93	691 40	
do.			651 35		1,599 00	3,396 03	102 80	
do.			49 06			266 43		307 43
do.			326 70				336 70	
do.			285 60				285 60	
do.				109 09				109 09

Brecksville Road Grading, etc.  
Becker Avenue Grading, etc.

TABLE No. 3.—Continued

	Amount of Bonds Outstanding Jan. 1, 1878.	Amount of Bonds Outstanding Jan. 1, 1879.	Balance Debit Jan. 1, 1878.	Balance Credit Jan. 1, 1879.	Disbursements for the Year 1878.	Receipts for the Year 1878.	Amount Due From Street Railroads.	Amount Overdrawn Jan. 1, 1879.	Cash on Hand Jan. 1, 1879.
Beech Street Sewer	\$ 1,000 00	122 00	\$ 122 00	301,150 00	\$ 641 08	\$ 630 04	.....	133 04	8,030 07
.....	.....	.....	.....	17,599 06	88,857 71	35,057 14	.....	.....	6,938 49
.....	.....	.....	.....	133 64	20 00	.....	.....	.....	113 64
.....	.....	.....	.....	6,359 08	.....	.....	.....	6,359 09	.....
.....	6,400 00	1,034 63	.....	.....	2,310 18	3,205 46	.....	33 38	.....
.....	8,800 00	3,239 35	.....	.....	1,874 52	4,936 57	.....	247 30	.....
.....	.....	1,210 53	.....	.....	38 00	.....	.....	1,248 53	.....
.....	4,700 00	.....	.....	968 51	2,144 14	1,508 09	.....	.....	343 48
.....	.....	.....	.....	2,167 42	1,914 78	.....	.....	.....	238 64
.....	.....	.....	.....	218 64	110 54	.....	.....	.....	103 18
.....	.....	.....	.....	581 98	1,798 31	905 93	.....	711 41	.....
.....	.....	.....	.....	1,460 81	53 02	.....	.....	.....	1,408 29
Courtland Street	122,500 00	17,187 61	.....	.....	26,790 07	63,180 58	.....	797 10	.....
Center Street	.....	3,219 58	.....	.....	.....	1,563 38	.....	1,637 30	.....
Central Way Branch Sewer	.....	2,076 16	.....	.....	.....	1,046 90	.....	1,089 36	.....
Columbus Street Improvement	91,500 00	532 20	.....	.....	14,905 00	18,188 85	.....	.....	2,701 65
ChAMPLALA Street Paving, etc.	.....	112 00	.....	.....	1,877 76	1,849 03	.....	139 83	.....
.....	1,800 00	225 00	.....	.....	7,878 83	1,925 32	.....	178 11	.....
.....	8,000 00	.....	.....	1,368 31	2,316 09	1,259 54	.....	.....	5 80
.....	.....	14 00	.....	.....	214 00	912 56	.....	15 49	.....
.....	2,500 00	711 18	.....	.....	2,909 52	3,534 60	.....	86 05	.....
ring	19,000 00	.....	.....	74 76	6,432 96	6,935 11	.....	.....	576 91
.....	6,000 00	917 64	.....	.....	3,334 04	3,757 75	.....	433 56	.....
.....	1,300 00	.....	.....	39 57	625 93	300 39	.....	562 97	.....
.....	.....	.....	.....	7,738 59	6,090 51	.....	.....	281 62	.....
.....	14,300 00	.....	.....	.....	7,186 15	7,868 70	.....	.....	443 59
.....	14,600 00	.....	.....	18 87	376 00	2,408 07	.....	.....	1,880 94



TABLE NO. 3—Continued

	Amount of Bonds Outstanding Jan. 1, 1879.	Amount of (Certified Estimates Jan. 1, 1879.)	Balance Debit Jan. 1, 1879.	Balance Credit Jan. 1, 1879.	Disburse- ments for 1878.	Receipts for 1878.	Amounts Due from Street Rail- road Com- panies	Amounts Overdrawn Jan. 1, 1879.	(Paid on Hand Jan. 1, 1879.)
Clidings Avenue Opening.....	\$ 1,300 00		\$ 1,870 85		\$ 16,171 07	\$ 1,358 04		\$ 12 81	\$ 3,803 03
Garden Street Paving.....			7,641 11			27,515 20		175 38	
Garden Street Damages.....			175 68					1,153 82	
Gordon Avenue.....	8,300 00		1,152 62		4,770 04	2,025 49		2,933 89	
Grand Avenue.....	4,300 00		194 14	274 60	2,568 32	1,948 86		320 12	
Garden Avenue Damages.....	3,700 00		298 49		2,170 06			2,453 56	
Garden Street Sewer District.....	3,000 00		807 88		536 20	1,388 20		5 83	
Hough Avenue.....			401 76			315 00		86 76	
Huron Street.....			8,754 18			1,302 82		5,351 86	
Herman Street.....	184,000 00		28,739 90		183,813 88	110,048 27		2,905 19	5,374 89
House of Correction.....			2,346 26			63 08		235 00	
Hamilton Street.....			1,145 63		836 00	1,766 63		383 51	
Haight Street Opening.....	600 00		1,055 36		49 00	744 85		746 59	
Hodge.....			2,146 68			1,389 99		274 03	
Hemlock.....			1,043 83			769 80		573 18	
Hodge.....			364 18		18 00			9,625 60	
Herald Street Grading and Culverts.....	10,900 00		276 29		12,179 47	2,630 07		5 67	
Herald Street Damages.....			328 38		380 40	603 66		340 23	
Harvard Street.....	5,400 00		30 25		2,518 97	3,008 99			
Harvard Street Grading Damages.....	1,800 00		806 27		840 00	1,658 38			7 05
Hodge Avenue.....				691 13	787 36	857 78			631 65
etc.....					933 63	261 19		23 53	
Damages.....			306 20					378 20	
	54,000 00		4,011 54		59,973 63	33,616 00			19,630 83
				45,670 66	417,327 34	453,063 91			31,519 33
	7,000 00	13,987 60	4,007 99		4,449 00	4,273 27		4,164 72	
				197 69	600 70	2,735 96			8,502 85
Junction Street.....			1,489 87		5,067 60	7,724 45			216 96
Jefferson Street.....			346 19		873 97	1,188 86		103 80	
Kennard Street Sewer.....	1,300 00		169 23		69,508 23	37,466 63		25,911 84	
Kinsman Street Paving.....	166,900 00		3,639 14		2,167 45	5,666 79		119 30	
Lincoln Avenue Grading & Culverts.....	4,500 00								

[illegible]

TABLE No. 3—Continued.

	Amount of Bonds Outstanding Jan. 1, 1876.	Amount of Estimated (Certified) Jan. 1, 1879.	Balance Debit January 1, January 1, 1878, 1878.	Balance (Credit January 1, January 1, 1878, 1878.	Disburse- ments for 1878.	Receipts for 1878.	Amounts Due from Street Rail- road Com- panies.	Amounts Overdrawn Jan. 1, 1879.	Cash on Hand Jan. 1, 1879.
Steel & McMahon	..	2,363 34	25,183 32	1,986 58	35,997 79	73,793 41	..	..	1,936 58
..	..	..	3,425 43	..	..	3,425 43	..	..	3,342 10
..	47,000 00	..	236 23	..	12,452 00	12,783 96	..	..	96 73
..	14,800 00	..	4,593 76	..	7,176 00	10,785 75	..	927 01	..
..	..	..	21,886 29	..	..	21,015 75	..	850 54	..
..	3,500 00	..	..	..	8,471 00	8,563 73	..	..	98 73
Park to Erie Street	..	..	7,334 82	..	..	..	..	7,334 82	..
Superior Street Damages	26,100 00	..	8,178 17	..	28,738 00	28,549 56	144 87	8,361 04	..
..	..	344 10	..	..	..	..	..	..	..
..	28,300 00	..	25,353 57	..	19,260 00	46,563 39	..	..	1,249 72
..	..	..	4,333 79	..	..	1,199 84	..	2,153 95	..
..	31,300 00	..	2,495 31	..	8,080 00	10,119 90	..	..	1,594 09
..	..	..	232 84	..	125 00	961 73	..	..	633 79
..	409,000 00	..	..	..	..	..	..	2,514 87	..
..	..	..	2,514 87	..	..	..	..	..	..
..	..	..	88 87	..	508 75	659 06	..	..	61 44
..	11,100 00	..	7,967 44	..	3,405 50	11,415 13	..	..	42 19
..	4,000 00	..	1,040 20	..	2,430 00	4,019 46	..	..	559 26
Sewer District 1 and 2, E. Cleveland	31,500 00	..	68 88	..	1,890 00	1,918 06	..	30 77	..
..	..	..	..	..	2,535 51	8,180 33	..	..	654 62
Superior St. Sewer, E. of Dean Brook	5,300 00	..	1,306 13	..	2,011 20	2,103 27	..	1,214 22	..
..	..	..	251 95	..	2,387 49	1,208 18	..	1,388 26	..
Sewer District No. 1.	40,300 00	..	..	2,951 13	15,429 75	5,809 68	..	6,688 96	..
..	..	..	..	1,246 17	26,387 66	15,963 14	..	9,275 25	..
..	01,600 00	..	..	4,719 80	30,517 02	18,172 46	..	7,625 26	..
..	45,212 27	..	..	13,877 49	9,653 46	119 16	..	..	4,248 19
..	3,200 00	..	..	12,216 20	27,185 80	15,742 68	..	..	763 18
..	50,500 00	..	..	1,707 08	1,030 00	90 97	..	..	763 05
..	..	..	..	..	20,362 51	52,359 53	..	..	611 27
..	258,007 73	371 75	12,379 75	..	..	..	..	..	..

## CITY AUDITOR'S REPORT.

1-1

Sewer District No 8.	2,467 51	3,199 82	6,320 31	674 98
" 9	657 01	94 00	2,500 09	2,857 01
" 10	182 97	5,906 13	2,500 09	2,857 01
" 11	598 62	1,278 50	2,054 12	307 00
" 12	4,565 00	8,300 67	11,130 27	1,785 40
" 13	1,015 00	3,013 73	4,750 42	121 09
" 14	17 00	24 01	24 01	6 83
" 15	298 31	6,206 63	6,303 30	297 55
" 16	539 77	5,886 08	6,425 47	3 33
" 17	402 31	578 00	578 00	175 00
" 18	73 23	240 35	240 35	167 12
" 19	643 03	1,307 98	1,307 98	1,951 01
" 20	176,634 54	559,513 48	578,297 99	175,719 05
" 21	101 97	307 54	307 54	95 47
" 22	806 96	75 00	807 04	731 96
" 23	58 89	9,090 77	10,514 15	83 69
" 24	465 80	2,857 00	2,872 74	907 78
" 25	6,723 24	2,857 00	2,872 74	6,707 54
" 26	1,230 02	3,745 00	1,459 08	109 06
" 27	14,260 95	18,745 00	15,154 08	2,351 90
" 28	55,101 22	190,270 86	105,108 45	80,994 31
" 29	507 19	1,838 14	2,338 33	60 82
" 30	126 78	2,324 78	2,515 28	2,011 06
Wood Street	2,011 06	3,930 00	2,356 24	1,771 76
" 31	96 10	5,606 74	5,490 74	210 06
" 32	22 08	2,308 62	6,507 50	4,151 34
" 33	172 54	2,329 60	38 33	1,980 20
" 34	38 54	3,501 45	3,547 33	12 84
" 35	7,011 58	15,168 23	14,005 53	6,738 93
" 36	946 79	23,895 95	86 42	900 37
" 37	6,198 72	8,121 05	25,701 36	5,204 13
" 38	540 96	2,501 50	2,501 50	811 46
etc.				
grading, etc				
images..				

Facility to Woodland

Willson Avenue Grading, etc.

TABLE NO. 3 — Continued.

	Amount of Bonds Out- standing Jan. 1, 1879.	Amount for (Rep- resentative Out- standing Jan. 1, 1879.	Balance Debit January 1, 1878.	Balance Credit January 1, 1878.	Disbursements Receipts for for the the Year 1878.	Am't Due from Street Railroad Companies.	Amount Overdrawn January 1, 1879.	Cash on Hand Jan. 1, 1879.
Bills	21,000 00	76 22	10,076 62	9,582 84	18,766 64	417 56	187 65	
	4,500 00	766 92	1,847 93	77 85		2,557 20		
	2,000 00	20,362 35	3,420 00	24,000 00				
	26,800 00	1,296 06	15,628 00	15,365 04	7,424 35	1,520 92		
Hills	34,500 00	6,001 53	14,403 98	18,551 41		2,454 10		
To \$						\$237,957 85		
8. Cash on hand January 1, 1879.						310,511 82		
Cash Bal. Cr. Water Works Fund.						20,324 51		
Bonds held in trust						5,926 20		
	\$9,284,796 06	\$17,738 99	\$510,254 33	\$621,966 51	\$4,241,246 11	\$4,176,986 26	\$70,785 02	\$665,310 18
								\$665,310 18

\*See Recapitulations.









THE Y

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THE YEAR

1890

78,000 00

78,000 00

total Amount

78,000 00



STATEMENT OF ALL BONDS ISSUED BY THE CITY OF CLEVELAND  
IN 1878, SHOWING FOR WHAT PURPOSE, AND PROCEEDS OF SALE.

WHAT PURPOSE.	Improvement Authorized.	Amount of Issue in 1878.	Total Am't of Issue in 1878	Proceeds of Sale.	Total Proceeds of Sale.
<i>Street Damages:</i>					
Allen Street Opening. ....	1872	\$ 4,700 00		\$ 4,858 69	
Bond Street Opening.. ....	1873	35,000 00		36,144 50	
Bailey Street Opening.....	1873	1,000 00		1,082 70	
Central Place Opening .....	1872	15,500 00		16,006 85	
Courtland St. Straightening..	1873	1,800 00		1,858 86	
Col., Pearl & Wal. Run Imp...	1869	33,400 00		34,492 18	
E. Prospect St. Opening. ....	1872	4,500 00		4,647 15	
Grand Avenue Damages .....	1875	1,200 00		1,200 00	
Giddings Ave. Opening.....	1872	1,300 00		1,342 51	
Harvard St. Damages...	1876	1,600 00		1,652 22	
Lincoln Ave. Damages .....	1874	4,100 00		4,234 07	
March St. Extending .....	1873	3,500 00		3,614 45	
Miles St. Damages .....	1875	300 00		300 00	
Payne Ave. Opening.....	1874	89,600 00		92,529 92	
Russell Ave. Opening .....	1873	7,600 00		7,848 52	
Seneca St. Opening .....	'72-'75	6,000 00		6,196 20	
St. Clair St. Widening. ....	1874	28,300 00		29,225 41	
Summit St. Opening.....	1872	6,300 00		6,506 01	
Slater St. Opening. ....	1873	9,100 00		9,397 57	
Woodland Hills Ave. Damages	1876	2,800 00		2,891 56	
Total Street Damages. ....			\$257,600 00		\$265,974 47
<i>Street Improvement:</i>					
Atlantic St. Culverts ...	1875	\$ 1,000 00		1,032 70	
Broadway Pav., Union to Miles	1874	19,000 00		19,621 30	
Broadway Pav., Ind. to Union	1872	2,500 00		2,531 75	
Beckwith St. Grading.....	1875	1,200 00		1,239 24	
Chestnut Ridge Grading	1874	4,600 00		4,750 42	
Euclid Ave. Pav., west of Erie.	1872	5,000 00		5,168 50	
Lincoln Ave. Culverts.....	1875	4,500 00		4,647 15	
Seneca St. Paving.....	1875	4,000 00		4,120 80	
St. Clair St. Paving.....	1871	7,238 16		7,238 16	
Total Street Improvement			49,038 16		50,405 02
<i>Sewers:</i>					
Broadway Sewer .....	1875	\$ 2,300 00		2,375 71	
St. Clair Street Sewer.....	1876	4,600 00		4,750 42	
Total Sewer.....			6,900 00		7,126 13
<i>General:</i>					
Funded Debt .....	Prior to 1874	\$178,000 00		185,814 20	
Cuyahoga River Dredging....	1876	55,000 00		55,327 60	
Canal .....	'72-'76	8,000 00		8,311 76	
Viaduct. ....	'72-'76	567,000 00		578,397 99	
Total General.....			\$ 808,000 00		\$827,851 55
Aggregates.....			1,121,538 16		1,151,257 17

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As shown by Table No. 4, bonds were issued in 1878 to the amount of \$1,121,538.16. Of this amount \$575,000 were issued to provide means to carry on the Viaduct and Canal improvements.

To complete payment for dredging done under contract with Sims and Smith, entered into in 1876, and to meet maturing bonds and interest on dredging account, \$55,000 of dredging bonds were issued.

Of the \$313,500 of special bonds issued in 1878, only \$20,738.16 were an original issue, and these, of course, were on account of improvements authorized and begun prior to the taking effect of the Burns law, December, 1, 1876.

The balance of special bonds, \$292,800 were a re-issue to meet the principal and interest of original bonds maturing in advance of the collection of special taxes to meet their payment.

The \$178,000 of Funded Debt bonds issued in 1878 were issued to fund long standing indebtedness on account of Nicholson pavement royalty, steam road roller, street intersections and special road accounts, which, from its limit of taxation, the city was unable otherwise to provide for.





TABLE No. 7.

STATEMENT OF STREET IMPROVEMENT BONDS OUTSTANDING DECEMBER 31, 1878, AND MATURING AS FOLLOWS:

NAMES OF STREETS.		Rate Per Cent.	Septem- ber, 1879.	Septem- ber, 1880.	Septem- ber, 1881.	Septem- ber, 1882.	Septem- ber, 1883.	Septem- ber, 1884.	Total.
Atlantic Street Paving, Culverts, etc.....		7	1,700	\$ 1,700	\$ 1,000				\$ 4,400
Broadway Paving, etc.—Independence to Union.....		7	30,100	3,500					33,600
" " " Union to Miles.....		6		2,000					2,000
" " " Union to Miles.....		7	28,000	28,000	27,500	19,000			102,500
Brownell Street Paving—Euclid to Burnham.....		6	2,000	2,000	2,000	39,800			45,800
Becker Avenue Grading, etc.....		7	5,000	5,000	5,000				15,000
Beckwith Street ".....		7	400						400
Bollivar Street Grading and Paving.....		7	1,800	700					2,500
" " ".....		7	2,600						2,600
Clinton Street Grading, etc.....		6	300						300
Cedar Street Grading, etc.—Perry to Willson.....		7	1,500						1,500
Commercial Street Paving, etc.....		7	2,500						2,500
Case Avenue Grading and Paving—Euclid to Payne.....		7	2,000	2,000	2,000				6,000
" " ".....		7	2,800	2,800	2,600				8,200
Columbus Street Grading and Paving.....		6	2,000	1,300	2,800				6,100
Chestnut Ridge Street Grading, etc.....		7	14,600	14,500					29,100
" " ".....		7	5,000	2,100	2,500				9,600
Doan Street Grading, etc.....		6		3,000	3,000	4,000			10,000
Detroit Street Paving, etc.....		7	1,300	1,100					2,400
Cedar Avenue Grading and Paving—Willson to Fair- mount.....		7	6,600	6,600	6,800				20,000
Euclid Avenue—West of Erie Street.....		6		2,600	3,000	3,000	3,000	3,000	14,600
" " ".....		7	1,000					5,000	6,000
Eagle Street Paving, etc.....		6	4,000	4,000	4,000	4,000			21,000
Euclid Avenue Repaving—Perry to Willson.....		7	2,000	2,500	3,000				7,500
Euclid Avenue—Fairmount to City Limits.....		7	10,000						10,000
" " ".....		7	3,300						3,300
Euclid Avenue—Willson to Fairmount.....		6		3,800	3,000	3,000	5,100	3,000	21,200
East Madison Avenue.....		6		1,000	1,000	1,000		2,000	5,000
" " ".....		7		9,000	9,000	9,000	9,000	10,000	46,000
" " ".....		7	700	700					1,400

Fulton Street Grading and Paving.....	7	3,100	3,000	1,000	1,000	1,800	1,800	6,100
Fairmount Street Grading and Paving.....	6	.....	1,000	.....	.....	.....	.....	5,600
Grand Avenue Grading, etc.....	7	2,600	2,800	2,700	.....	.....	.....	7,900
Grand Avenue Grading, etc.....	6	100	100	100	.....	.....	.....	300
Hodge Street—From Lorain Street South.....	7	600	.....	.....	.....	.....	.....	600
Herald Street Culverts, etc.....	7	8,900	.....	.....	.....	.....	.....	8,900
".....	6	.....	2,000	.....	.....	.....	.....	2,000
Hough Avenue Grading, etc.....	6	3,000	.....	.....	.....	.....	.....	3,000
Harvard Street Grading, etc.....	7	2,300	2,100	.....	.....	.....	.....	4,400
".....	6	400	600	.....	.....	.....	.....	1,000
Jennings Avenue Improvement.....	7	3,500	3,500	.....	.....	.....	.....	7,000
Kinsman Street Paving—Willson Street to City Limits.....	7	35,400	35,100	1,000	.....	.....	.....	71,500
".....	6	.....	.....	37,000	38,000	20,000	.....	95,000
Long Street Paving.....	7	2,000	.....	.....	.....	.....	.....	2,000
Lake Street Paving, etc.....	7	10,500	9,500	.....	.....	.....	.....	20,000
Lincoln Avenue Culverts, etc.....	7	1,500	1,500	1,500	.....	.....	.....	4,500
Miles Street Culverts, etc.....	7	1,700	1,800	.....	.....	.....	.....	3,500
Old River Street—Mulberry to Division.....	7	1,700	2,000	.....	.....	.....	.....	3,700
Ontario Street Paving—St. Clair to Summit.....	7	2,000	2,600	.....	.....	.....	.....	5,200
Perry Street Paving—Woodland to Broadway.....	7	1,800	1,700	1,700	1,800	.....	.....	7,000
Prospect Street Repaving—Erie to Perry.....	7	5,100	5,100	5,100	5,100	.....	.....	20,000
Quincy Street Culverts, etc.....	7	200	.....	.....	.....	.....	.....	200
".....	6	900	1,100	.....	.....	.....	.....	2,000
St. Clair Street Paving, etc.—Erie to Water.....	7	2,300	2,300	2,800	2,000	.....	.....	8,900
".....	6	6,100	4,300	3,300	3,500	.....	.....	17,200
Seneca Street Paving, etc.—St. Clair to Depot.....	7	5,300	5,500	4,000	.....	.....	.....	14,800
Stones Levee.....	7	2,000	2,000	.....	.....	.....	.....	4,000
Superior Street Repaving—Monumental Park to Erie Street.....	7	.....	.....	.....	.....	.....	.....	.....
Scoville Avenue Grading, etc.....	7	3,500	.....	.....	.....	.....	.....	3,500
".....	7	1,500	1,400	.....	.....	.....	.....	2,900
".....	6	1,400	1,500	.....	.....	.....	.....	2,900
Tod Street Grading, etc.....	7	4,400	.....	.....	.....	.....	.....	4,400
Willson Avenue—Lake Erie to Euclid Avenue.....	7	11,300	14,000	10,000	.....	.....	.....	11,300
".....	6	4,300	.....	.....	.....	.....	.....	28,800
".....	7	1,500	.....	.....	.....	.....	.....	1,500
".....	7	700	.....	.....	.....	.....	.....	700
".....	6	.....	5,000	5,000	6,500	.....	.....	16,500
".....	7	1,800	1,700	.....	.....	.....	.....	3,500
".....	6	1,000	2,000	2,500	.....	.....	.....	5,500
Woodland Avenue Paving, etc.—Ohio to Willson.....	7	3,000	.....	.....	.....	.....	.....	3,000
".....	7	1,600	.....	.....	.....	.....	.....	1,600
".....	6	8,000	8,000	9,000	.....	.....	.....	25,000
".....	7	11,800	11,600	11,100	.....	.....	.....	34,500









[illegible]

\*Charged to account of Broadway, Grading and Damages by Grading, from Union to Miles Street, all included in one assessment.

TABLE NO. 10.  
STATEMENT OF AMOUNT OF SEWER BONDS ISSUED DURING 1878, AND MATURING AS FOLLOWS:

	Rate Per Cent.	When Issued.	Month when Due. Bonds.	1879	1880	1881	1882	1883	Total.
Broadway Sewer—East Kingsbury Run.....	7	September 1, 1878..	September	\$1,000	\$1,300	.....	.....	.....	\$2,300
St. Clair Street Sewer.....	7	September 1, 1878..	September	.....	.....	.....	.....	\$4,600	4,600
Total Issue for 1878...	.....	.....	.. .. .	\$1,000	\$1,300	.....	.....	\$4,600	\$6,900
Amount of Sewer Bonds Issued in 1877.....									\$33,704 15
.. .. .				1878 .....					6,900 00
Amount Issued in 1878 Less than in 1877 .....									\$26,804 15

5) MATURING AS FOLLOWS :

	1887	1888	1889	1890	1891	1892	Total Each Is- sue Un- paid Dec. 31, 1878.	Total Un- paid Dec. 31, 1878.
Sew							\$ 40,800	\$ 40,800
Sew							6,000	
Sew							5,000	
Sew							89,800	
Sew							700	
Sew							7,200	
Sew							2,900	61,600
Sew							1,600	
Sew							2,800	
Sew							12,000	
Sew							17,000	
Sew							2,000	
Sew							2,000	
Sew							7,700	45,100
Sew							8,200	3,200
Sew							10,000	
Sew							23,800	
Sew							6,000	
Sew							5,000	
Sew	\$ 2,800	\$ 2,800					8,400	
Sew							600	
Sew							5,700	59,500
Sew							4,000	
Sew							3,000	
Sew	20,000	18,000	\$20,000	\$ 23,000			210,000	
Sew		10,000	9,600				19,600	
Sew						\$10,700	10,700	
Sew							3,100	
Sew							7,500	257,900
Sew							1,800	1,800
Sew							2,000	2,000
Sew							89,100	89,100
Bro							5,800	5,800
Com							8,000	8,000
Sup							5,300	5,300
St. C							16,600	16,600
Gard							3,700	3,700
Can							1,200	1,200
Reed							1,000	1,000
Kent							1,800	1,800
Win							2,200	2,200
Sew							81,500	81,500
	\$22,800	\$30,800	\$29,600	\$22,000		\$10,700		\$586,100

Transferred from Street Improvement Bond Account.....	\$647,259 54
	31,500 00
	\$678,759 54
	586,100 00
	\$ 92,659 54

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## ASSETS AND SINKING FUNDS.

The foregoing minute exhibit of city indebtedness should be accompanied by a representation of the sources of its payment, and of the city property into which the general debt has gone.

Of course the *special* bonded debt, \$2,606,100, represents the cost, so far as the same is unpaid, of various special local improvements, for which the city has undertaken a temporary liability, and which must be met by special local assessments that the city is fully authorized to levy.

The *general* bonded debt \$6,678,000, is best represented by the city property into which it has gone, which, with its valuation, is embraced in the following schedule taken from the last annual address of Mayor Rose :

Armory and lot, . . . . .	\$ 20,000 00
Bridges and appurtenances, . . . . .	293,000 00
Canal Lands, . . . . .	300,000 00
Fire Department, real estate and equipments, . . . . .	368,870 00
Infirmity Farm and improvements, . . . . .	163,673 00
Lake View Park, . . . . .	307,396 00
Land—Miscellaneous parcels, 43 in number, . . . . .	79,604 00
Market grounds and buildings, . . . . .	156,295 00
Police Department, real estate and equipments, . . . . .	157,268 85
Pest House and Farm, . . . . .	30,000 00
School Department, real estate and equipments, . . . . .	1,590,654 00
Viaduct, . . . . .	2,135,000 00
Water Works, real estate and equipments, . . . . .	2,392,029 00
Workhouse, grounds, buildings and equipments, . . . . .	231,633 00
<hr/>	
Total, . . . . .	\$8,225,422 85

The city of Cleveland has, at present, three sinking funds, so called :

1. The Sinking Fund of 1862.
2. The General Sinking Fund.
3. The Viaduct Sinking Fund.

The Sinking Fund of 1862 was created such by ordinance of the City Council passed May 6, 1862, under authority of an act of the Legislature passed March 28, 1862. This fund is already specially pledged for the payment of Water Works bonds of the city issued prior to 1870, the last of which mature in 1884. The Fund has been managed with signal sagacity and success, and has a par value, as reported to the City Council January 1, 1879, by the Commissioners, of \$1,816,690.53.

The General Sinking Fund consists of the proceeds of an annual tax of "not less than one mill, nor exceeding three mills," authorized by law, and hitherto applied to the payment of maturing general bonds not otherwise provided for. Though called a sinking fund, no part of it has ever been invested and managed as such. A sufficient tax has been levied each year to meet the bonds maturing in the succeeding year, and the money has lain idle in the treasury till needed for such purpose. As the sums falling due in each year vary, the levy for this purpose has varied accordingly.

The amount of general bonds not otherwise provided for, maturing in each of the ten years from 1880 to 1889 inclusive ranges from \$35,000 to \$317,000. Of course, a levy varying to correspond, would, in some years, be exceedingly onerous, even if the limit of taxation would admit it. Nor can payment of any of the bonds maturing previous to 1890 well be extended, as the years beyond 1890 are already laden with maturing bonds, payable from this fund averaging over \$300,000 per year up to 1897.

The true policy is to make a uniform average annual levy, and create a real sinking fund, adequate, with its proceeds, when properly invested and managed, to extinguish all the bonds of this class at maturity. An ordinance making provision for such a management of the fund is pending (Feb. 24, 1879), in the City Council.

The Viaduct Sinking Fund, for which the first levy,  $\frac{1}{16}$  of a mill is made in the tax of 1878, had a credit January 1. 1879, of \$1,951.01 arising from the sale and rent of premises acquired by the city on the Viaduct route, with some minor credits. To this fund the proceeds of a tax "not exceeding two mills," as required by law will annually accrue, beginning with the tax of 1878. To this fund also, the proceeds of the sale or rental of all Canal and Viaduct property belong.

The bonds issued for Viaduct and Canal account mature from 1893 and on, as shown by Table No. 5, so that fifteen years will elapse before any disbursements from this fund will be required. The proceeds of a moderate levy, wisely invested and managed in this fund, will provide for all Viaduct and Canal bonds. Provision for the management of this fund is also made in the pending ordinance before referred to.

With these established sinking funds committed to the care of the present Sinking Fund Commissioners, whose sagacity and fidelity are unanimously acknowledged by their fellow citizens and who justly take a worthy pride in the administration of their trust; and with the latter two funds annually replenished by a uniform but ample levy; and with a steady adherence to paying debts as they mature and making no new ones, the people of Cleveland, as well as her creditors, may consider her indebtedness duly provided for.





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Rest.	Total A of Bo ue in
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AMOUNT

est.	Total Am't of Bonds due in 1879.	Total Am't of Interest Due in 1879.	Balance Bonds Un- paid Jan. 1, 1880.	FOR WHAT PURPOSES ISSUED.
	\$ 25,000	\$ 13,500	\$ 200,000	Water Works.
000	400,000	89,250	1,075,000	Water Works.
		12,720	212,000	Funded Debt.
000		90,790	1,297,000	Funded Debt.
620	6,000	3,240	48,000	Infirmity Purposes.
	20,000	6,000	80,000	Cuyahoga River Dredging.
750		22,050	315,000	Parks.
240		480	8,000	Canal.
		18,480	264,000	Canal.
		6,250	125,000	Viaduct.
010		95,520	1,592,000	Viaduct.
275		29,280	418,000	Viaduct.
		12,880	184,000	House of Correction.
300	54,000	13,920	205,000	Schools.
750		10,500	150,000	Schools.
	6,000	2,821	34,300	Sewer District No. 1.
	3,000	360	3,000	" " " 2.
	12,400	3,892	43,200	" " " 2.
	11,500	1,983	21,900	" " " 3.
	9,000	819	2,700	" " " 3.
	800	168	2,400	" " " 4.
	10,000	600		" " " 5.
	6,300	3,465	43,200	" " " 5.
	5,000	300	2,000	" " " 7.
	12,800	17,563	238,100	" " " 7.
	1,000	91	300	" " " 10.
	1,000	140	1,000	" " " 11.
	5,000	2,737	34,100	" " " 12.
	2,500	371	2,800	Broadway Sewer, east of Kingsbury Run.
	2,000	560	6,000	Commercial Street Sewer.
	1,500	371	3,800	Superior St., Sewer, east of Doan Brook
	3,000	1,162	13,600	St. Clair Street Sewer.
	1,700	259	2,000	Garden Street Sewer
	600	84	600	Canfield Street Sewer.
	500	70	500	Beech Street Sewer.
	700	91	600	Kennard Street Sewer.
	2,200	154		Windsor Avenue Sewer.
		1,890	31,500	Sewer Districts Nos. 1 and 2, E. Cleveland.
	812,300	63,061	640,900	Street Improvements.
	202,400	73,299	864,400	Street Damages.
	\$1,118,200	\$801,151	\$8,165,900	
945				
		\$1,719,351		





TABLE NO. 15.  
A COMPARATIVE ANALYZED STATEMENT OF DISBURSEMENTS FROM THE GENERAL FUNDS OF THE CITY OF CLEVELAND FOR THE YEARS 1875, 1876, 1877, 1878.

1875	Ordinary Ex- penses.	Amounts Paid for Work Done in former Years.	New Buildings, Land, and other Permanent Improvements.	Costs of Court, Judgments, &c.	Total Disbursements.
Bridge Fund.....	\$ 24,815 60	.....	.....	.....	\$ 24,815 60
Dredging Fund.....	2,249 42	\$19,072 98	.....	.....	21,322 35
Fire Department .....	151,862 03	.....	\$19,086 20	.....	170,948 23
General Fund. ....	144,288 62	.....	50,897 19	\$3,200 40	198,386 21
Gas Fund .....	116,746 15	.....	5,425 23	.....	122,171 38
House of Correction .....	82,197 04	.....	2,465 00	.....	84,662 04
Infirmary Fund.....	81,256 21	.....	.....	.....	81,256 21
Market Fund.....	6,602 67	.....	.....	.....	6,602 67
Police Court Fund.....	8,533 85	.....	4,083 82	.....	12,617 77
Park Fund .....	7,803 57	.....	52,853 72	.....	60,657 29
Police Department.....	168,302 68	.....	.....	.....	168,302 68
Street Department. ....	92,420 42	.....	.....	.....	92,420 42
Total Disbursements for 1875..	\$887,078 26	\$19,072 98—	\$124,811 26	\$3,200 40	\$1,044,162 86

TABLE NO. 15.—Continued.

1876	Ordinary Expenses.	Amount Paid for Work Done in Former Years.	New Buildings, Land and Other Permanent Improvements.	Jurors Fees Superior Court.	Total Disbursements.
Bridge Fund.....	\$ 24,185 44	.....	.....	.....	\$ 24,185 44
Dredging Fund.....	49,834 72	\$ 46,643 39	.....	.....	96,478 11
Fire Department .....	130,638 20	.....	\$ 10,256 63	.....	149,894 83
General Fund.....	156,492 79	.....	98,380 07	\$ 17,684 75	272,557 61
Gas Fund .....	119,426 05	.....	6,050 85	.....	125,475 40
House of Correction. ....	78,343 62	.....	.....	.....	78,343 62
Infirmary Fund.....	84,539 34	.....	46,712 40	.....	131,251 74
Market Fund .....	9,742 46	.....	.....	.....	9,742 46
Police Court Fund.....	8,040 70	.....	1,055 95	.....	9,096 65
Park Fund .....	6,903 57	.....	14,199 35	.....	21,102 92
Police Department .....	154,528 88	.....	.....	.....	154,528 88
Street Department .....	99,073 85	.....	.....	.....	99,073 85
Total Disbursements for 1876 .....	\$980,748 12	\$ 46,643 39	\$176,654 75	\$ 17,684 75	\$1,171,731 01

TABLE No. 15—Continued.

1877.	Ordinary Ex- penses of 1877, Paid in 1877-8.	Total Ordinary Ex- penses for 1877.	Amounts Paid for Work Done in for- mer Years.	New Buildings Land, and (Other Perma- nent Improve- ments.	Costs of Court Judgments and Miscella- neous Exp'ses.	Total Disbursements
Bridge Fund .....	\$10,822 68	\$ 20,205 37	.....	\$13,882 36	.....	\$33,685 04
Bills contracted in 1877, paid in 1878 .....	382 00		.....	14,184 41	.....	.....
Dredging Fund .....	\$52,841 78	85,017 39	\$33,794 31	.....	.....	86,636 09
Bills contracted in 1877, paid in 1878 .....	32,175 61		.....	.....	.....	.....
Fire Department .....	\$114,169 45	125,954 25	.....	41,857 00	.....	156,026 45
Bills contracted in 1877, paid in 1878 .....	11,784 80		.....	.....	.....	.....
General Fund. ....	\$88,900 34	95,623 49	.....	23,614 68	\$12,746 05	125,261 05
Bills contracted in 1877, paid in 1878 .....	6,723 15		.....	.....	.....	.....
Gas Fund.....	\$94,208 70	116,587 19	.....	608 75	.....	94,907 45
Bills contracted in 1877, paid in 1878 .....	22,378 49		.....	.....	.....	.....
House of Correction.....	\$80,013 97	99,072 53	.....	.....	.....	80,013 97
Bills contracted in 1877, paid in 1878 .....	19,058 56		.....	.....	.....	.....
Infirmary Fund.....	\$80,289 09	99,553 98	5,350 00	14,000 00	.....	99,619 09
Bills contracted in 1877, paid in 1878 .....	9,264 89		.....	.....	.....	.....
Market Fund .....	\$6,505 57	7,980 98	.....	.....	.....	6,505 57
Bills contracted in 1877, paid in 1878 .....	1,475 41		.....	.....	.....	.....

TABLE NO. 15—Continued.

1877.	Ordinary Ex- penses of 1877, Paid in 1877-8.	Total Ordinary Ex- penses for 1877.	Amounts Paid for Work Done in for- mer Years.	New Buildings Land and Other Perma- nent Improve- ments.	Costs of Court Judgments and Miscella- neous Exp'ses.	Total Improvements.
Police Court Fund Bills contracted in 1877, paid in 1878. ....	\$8,835 38 775 13	\$9,610 51		\$2,439 30		\$11,274 68
Park Fund..... Bills contracted in 1877, paid in 1878.....	\$8,643 57 184 72	6,828 29		2,546 67		9,190 24
Police Department..... Bills contracted in 1877, paid in 1878.....	\$159,986 72 2,400 00	162,386 72				159,986 72
Street Department..... Bills contracted in 1877, paid in 1878.....	\$65,899 05 3,768 54	69,667 59				65,899 05
Total.....		\$888,488 29	\$39,144 31	\$113,203 15	\$12,746 05	\$929,005 40

TABLE NO. 15—Continued.

1878		Ordinary Ex- penses.	Amounts Paid for Work Done in for- mer Years.	Costs of Court Judgments and Miscella- neous Expenses.	Bills Contracted in 1877, Paid in 1878.	Total Disbursements
Bridge Fund	\$ 23,780 61		\$33,241 48	595 13	14,567 10	\$38,357 71
Dredging Fund	8,249 88			1,470 70	32,175 01	74,332 08
Fire Department	146,714 94			8,883 81	11,784 80	159,970 44
General Fund.	116,470 51				6,723 15	132,076 97
Gas Fund	106,680 04				22,573 48	131,304 19
House of Correction	108,355 21				19,058 58	132,813 88
Infirmary Fund	49,197 29				9,284 89	58,973 63
Market Fund	7,930 22			98,813 80	1,475 41	108,219 43
Police Court Fund	8,606 90				775 13	9,382 03
Park Fund	6,008 57		454 78		184 72	6,648 07
Police Department	155,143 71				2,400 00	157,543 71
Street Department	47,234 49			10,183 55	3,763 54	67,189 58
Total Disbursements	\$738,302 85		\$33,241 48	\$125,949 49	\$124,576 40	\$1,077,741 72

TABLE NO. 16.

## COMPARATIVE TAX OF 1875, 1876, 1877 AND 1878.

YEAR.	Valuation.	Rate of Levy.	Am't Levied.
1875.....	\$73,305,277	18 $\frac{1}{2}$ Mills.	\$1,374,473 84
1876.....	73,562,237	18 $\frac{1}{2}$ Mills.	1,379,291 94
1877.....	71,296,122	17 $\frac{1}{2}$ Mills.	1,272,635 78
1878.....	70,139,639	15 $\frac{7}{8}$ Mills.	1,076,643 46

## THE LEVY OF 1878.

The following is the provision of law limiting municipal taxes, Section 9, page 400, of the Municipal Code of 1878:

“The aggregate of all taxes levied or ordered by any municipal corporation, including the levy for general purposes, above the tax for County and State purposes, and excluding tax for schools and school house purposes, shall not exceed in any one year—

“In cities of the second grade of the first-class, eleven mills, and such further rate as may be necessary to pay the interest on the public debt, and for cemetery purposes, as provided by law.”

TABLE NO, 17.  
TAX OF 1878, TO MEET EXPENSES OF 1879.

FUND.	Rate. Mills.	Valuation.	Amount Levied.
Bridge . . . . .	<del>1873</del> 10000	\$70,139,639	\$ 13,137 15
Dredging ... ..	<del>2240</del> 10000	"	16,412 67
Fire Department . . . . .	<del>1873</del> 10000	"	181,322 45
Gas or Lighting. . . . .	<del>1484</del> 10000	"	98,490 08
General..... .	<del>1702</del> 10000	"	82,077 41
House of Correction.....	<del>1873</del> 10000	"	13,137 15
Infirmary.....	<del>7031</del> 10000	"	49,245 04
Police.....	<del>1873</del> 10000	"	181,322 45
Street.....	<del>8438</del> 10000	"	59,099 66
Street Intersections.....	<del>8438</del> 10000	"	59,099 66
Sinking, (General).....	<del>2830</del> 10000	"	68,947 27
Sinking, (Viaduct). . . . .	<del>7031</del> 10000	"	49,245 04
	11 Mills.	"	
Cemetery.....	<del>18</del> 1000	"	10,520 95
Intorest.....	<del>42</del> 100	"	294,586 48
Total.....	15 <del>35</del> 100		\$1,076,643 48

Whether the levy of 1878, as above, be sufficient to meet the expenses of the city for 1879 or not, it is all that could be levied under the law as quoted above, and I do not believe that the tax payers wish to see the limit placed any higher by a change in the law. I believe it to be wholly feasible to bring the expenditures of 1879 within the levy, indeed I am firmly of the opinion that the limit might well be ten instead of eleven mills, and expenditures be made to correspond.

TABLE NO. 18.  
SPECIAL ASSESSMENTS STANDING ENJOINED JANUARY 1, 1879.

NAME OF IMPROVEMENT.	FROM.	TO.	AMOUNT ENJOINED.	
			1877	1878
Bond Street Opening.	Euclid Avenue	Superior Street	\$ 130,635 10	\$28,008 32
Broadway Paving	Independence Street	Union Street		14,886 28
"	Union Street	Miles Street	141,384 06	141,384 06
"	Liberal Street	Independence Street	4,389 71	4,204 73
Chestnut Ridge Macadamizing.	Lorain Street	Ridge Road	11,560 42	
Franklin Street Paving	Harbor Street	Waverly Street		5,327 43
Herald Street Grading, etc	Woodland Avenue	Kinsman Street		804 16
Jennings Avenue Paving	Scranton Avenue	150 ft. S. Crown St.	4,650 83	
Kinsman Street Paving	Willson Avenue	City Limits	130,381 00	56,576 31
Lake Street Paving	Water Street	Erle Street	4,253 21	4,250 04
Long Street Paving	South Water St.	Seneca Street		81 85
Orange Street Opening	Superior Street	Willson Avenue	3,696 85	6,919 97
Payne Avenue Opening			373,153 10	373,153 10
Seneca Street Opening	Prospect St.	Huron St.	29,938 75	29,938 75
Sheriff Street Opening			77,501 17	1,217 44
Slater Street Opening			5,040 00	5,510 00
Summit Street Opening			12,188 69	511 15
Superior Street Widening	Willson Avenue	City Limits	2,711 77	3,124 44
Superior Street Grading	Willson Avenue	City Limits		425 94
Walworth Run Bridge, etc	St. Clair Street	Lake Erie	84,251 91	84,251 91
Willson Avenue Opening	Julia Street	Maurice Street	10,004 00	10,004 00
"			17,947 95	7,179 08
Grading				
			\$1,052,668 51	\$775,798 95



**RESULTS FOR THE YEAR 1878.**

Maintaining the efficiency of every branch of municipal service, and meeting each emergency in which an extraordinary outlay was necessary, the City Council, the various departments and city officers have concurred and succeeded in effecting a decided reduction in the cost of the city government to the tax payers.

The disbursements for ordinary expenses of 1878—as shown by table No. 15—are less than those of 1877 by \$105,095.94; less than those of 1876 by \$147,355.77, and less than those of 1875 by \$103,685.91; yet the maturing indebtedness of 1878 has been promptly and fully paid. The Viaduct and Canal projects, for which the prime liability was incurred years ago, and which both public demand and public policy have urged on, have been steadily carried forward so near to completion that no more bonds need be issued therefor.

Aside from bonds issued to complete the above enterprises, the general and special bonded indebtedness of the city has been reduced in 1878 by \$345,064.58.

The aggregate of the overdrawn special accounts, as shown by the Auditor's report for 1877, has been reduced from \$536,062.06 to \$274,798.36.

Special taxes in arrears against city property have been adjusted to the amount of \$10,569.62.

The tax levy of 1878, for municipal purposes, including due provision for the Viaduct Sinking Fund as required by law, is \$195,992.32 less than that of 1877; \$302,648.48 less than that of 1876, and \$297,830.48 less than that of 1875, as is shown by Table No. 16.

Respectfully submitted,

HENRY FORD,

*City Auditor.*



**ANNUAL REPORT**

**OF**

**THE CITY TREASURER,**

**OF THE**

**CITY OF CLEVELAND,**

**FOR THE FISCAL YEAR ENDING DEC. 31, 1878.**



# CITY TREASURER'S REPORT.

*To the Honorable Mayor and City Council of the City of Cleveland, Ohio:*

GENTLEMEN:—Herewith I beg to submit to you a detailed statement of the receipts and disbursements of the general funds of the city for the fiscal year ending December 31, 1878.

## DEBIT.

### DELINQUENT SIDEWALK FUND—

Overdrawn, January 1st, 1878. ....		\$3,006 70	
Disbursements .....	\$6,475 00		
Receipts. ....	6,238 98		
		236 71	
Overdrawn.....			\$3,006 41

### SEWER DISTRICT NO. 1—

Balance. ....		2,951 13	
Rec'pts from County Treasurer, Dist. Tax	129 01		
Delq't "	5,680 65		
	5,809 66		
Disbursements .....	15,420 75		
		9,620 00	
Overdrawn. ....			6,668 96

### SEWER DISTRICT NO. 2—

Balance....		1,246 17	
Rec'pts from County Treas., District Tax	422 04		
Delinq't "	15,440 10		
" " Other Sources. ....	4 00		
	15,866 14		
Disbursements.....	26,387 66		
		10,521 52	
Overdrawn.....			9,275 35

### SEWER DISTRICT NO. 3—

Balance.....		4,710 30	
Rec'pts from County Treas., District Tax	13,666 21		
Delin'qt "	4,506 25		
	18,172 46		
Disbursements.....	30,517 02		
		12,344 56	
Overdrawn....			7,025 26

**SEWER DISTRICT NO. 9—**

Overdrawn.....		\$657 61	
Disbursements.....		34 00	
Overdrawn.....			\$691 61

**SEWER DISTRICT NO. 10—**

Overdrawn.....			92 97
Rec'pts from County Treas., District Tax	\$1,858 72		
Delinq't "	641 87		
	2,500 09		
Disbursements.....	5,306 13		
Overdrawn.....		2,806 04	2,806 01

**SEWER DISTRICT NO. 12—**

Overdrawn.....		4,565 00	
Rec'pts from County Treas., District Tax	6,403 51		
Delinq't "	4,682 43		
	11,085 94		
Disbursements.....	8,256 34		
Overdrawn.....		2,829 60	1,735 40

**BROADWAY FUND—**

Overdrawn.....		14,541 28	
Disbursements.....	102,668 34		
Receipts.....	97,711 93		
Overdrawn.....		4,956 41	19,497 69

**KINSMAN STREET—**

Balance.....		280 07	
Disbursements.....	47,563 07		
Receipts.....	22,071 16		
Overdrawn.....		25,491 91	25,211 84

**ELM STREET—**

Overdrawn.....		1,013 29	
Overdrawn.....			1,013 29

**CHAMPLAIN STREET—**

Overdrawn.....		3,219 58	
Receipts.....		1,562 38	
Overdrawn.....			1,657 20

**GERMAN STREET—**

Overdrawn.....		1,680 38	
Receipts.....		1,363 05	
Overdrawn.....			397 33

**CENTER STREET—**

Balance.....		881 98	
Disbursements.....	1,799 31		
Receipts.....	205 92		
Overdrawn.....		1,583 39	711 41

**BANK STREET—**

Overdrawn.....		6,559 00	
Overdrawn.....			6,559 00

**MAIN STREET—**

Overdrawn.....		4,905 39	
Receipts.....		4,223 19	
Overdrawn.....			682 20

**EAST PROSPECT STREET DAMAGES—**

Overdrawn.....		5,992 52	
Receipts.....	6,084 33		
Disbursements.....	140 00		
Overdrawn.....		5,944 33	48 19

## CITY TREASURER'S REPORT.

177

**CEDAR AVENUE SEWER—**

Overdrawn.....		\$142 53	
Disbursements.....		963 00	
Overdrawn.....			\$1,106 53

**MILFORD STREET—**

Overdrawn.....		69 71	
Receipts.....	\$786 71		
Disbursements.....	720 17		
		66 54	
Overdrawn.....			3 17

**SEWER DISTRICTS NOS. 1 AND 2, E. C.—**

Overdrawn.....		58 83	
Receipts from County Treasurer.....	889 32		
Receipts from Other Sources.....	1,548 74		
	1,918 06		
Disbursements.....	1,890 00		
		28 06	
Overdrawn.....			30 77

**PEARL STREET FUND—**

Overdrawn.....		13,736 28	
Receipts.....	5,864 05		
Disbursements.....	1,070 00		
		4,794 05	
Overdrawn.....			8,942 23

**WEST RIVER STREET FUND—**

Overdrawn.....		14,260 95	
Receipts.....	15,154 05		
Disbursements.....	3,745 00		
		11,409 05	
Overdrawn.....			2,851 90

**SUPERIOR STREET FUND—**

Overdrawn ..		20,042 67	
Receipts..	19,216 95		
Disbursements.....	24 82		
		19,192 13	
Overdrawn.....			850 54

**EUCLID AVE. MACADAMIZING, E. C.—**

Overdrawn.....		591 77	
Disbursements.....	10,731 49		
Receipts.....	8,005 61		
		2,725 88	
Overdrawn.....			3,317 65

**LAKE STREET FUND—**

Overdrawn.....		6,345 04	
Receipts.....	25,421 66		
Disbursements.....	23,292 66		
		2,129 00	
Overdrawn.....			4,216 04

**SUPERIOR ST. OPENING & WIDENING—**

Overdrawn ..		6,356 88	
Disbursements.....		977 94	
Overdrawn.....			7,334 82

**EUCLID AVENUE REPAVING—**

Overdrawn.....		376 27	
Receipts.....	11,583 43		
Disbursements.....	11,400 00		
		183 43	
Overdrawn.....			242 84

**WOODLAND AVENUE WIDENING—**

Overdrawn.....		\$6,723 28	
Receipts.....	\$2,872 74		
Disbursements.....	2,857 00		
		15 74	
Overdrawn.....			\$6,707 54

**LORAIN STREET—**

Overdrawn.....		3,338 53	
Receipts.....		3,356 08	
Overdrawn.....			32 45

**DETROIT STREET—**

Overdrawn.....		3,906 78	
Receipts.....	11,410 60		
Disbursements.....	8,783 83		
		2,626 86	
Overdrawn.....			1,279 92

**WOODLAND AVENUE—**

Overdrawn.....		28,390 84	
Receipts.....	57,946 45		
Disbursements.....	33,452 98		
		24,493 47	
Overdrawn.....			3,797 37

**CENTRAL WAY—**

Overdrawn.....		15,770 36	
Receipts.....	8,829 60		
Disbursements.....	8,330 00		
		499 60	
Overdrawn.....			15,270 76

**ST. CLAIR STREET—**

Overdrawn.....		8,178 17	
Disbursements.....	28,733 03		
Receipts.....	28,549 56		
		183 47	
Overdrawn.....			8,361 64

**SENECA STREET—**

Overdrawn.....		4,536 76	
Receipts.....	10,785 75		
Disbursements.....	7,176 00		
		3,609 75	
Overdrawn.....			927 01

**ARLINGTON STREET—**

Overdrawn.....		96 98	
Disbursements.....		312 48	
Overdrawn.....			409 46

**BROADWAY SEWER—**

Overdrawn.....		3,359 35	
Receipts.....	4,986 57		
Disbursements.....	1,874 32		
		3,112 05	
Overdrawn.....			247 30

**FRANKLIN STREET—**

Overdrawn.....		14,926 97	
Receipts.....	19,651 09		
Disbursements.....	11,994 62		
		7,656 47	
Overdrawn.....			7,270 50

**COLUMBUS STREET—**

Overdrawn.....		17,187 61	
Receipts.....	53,085 99		
Disbursements.....	36,695 48		
		16,390 51	
Overdrawn.....			797 10



## CITY TREASURER'S REPORT.

179

**HARKNESS AVENUE—**

Disbursements .....	\$983 63	
Receipts .....	961 10	
Overdrawn .....		\$22 53

**WADE PARK AVENUE DAMAGES—**

Balance .....		\$76 22
Disbursements .....	10,076 62	
Receipts .....	9,582 84	
Overdrawn .....		493 78
		417 56

**GRADING, PAVING AND DAMAGES SUN-  
DRY STREETS—**

Overdrawn .....		118,717 29
Receipts .....	297,929 32	
Disbursements .....	213,535 67	
Overdrawn .....		84,393 65
		34,223 64
Balance Cash on hand .....		810,511 82

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**\$507,711 82**

## CREDIT.

## SINKING FUND—

Balance, January 1, 1878 .....		\$ 4,029 44	
Receipts from County Treasurer .....	\$168,862 79		
Disbursements, Payment of Bonds .....	160,000 00		
		8,862 79	
Balance .....			\$12,862 23

## BILLS PAYABLE—

Outstanding, Note to Police Life and Health Insurance Fund....			3,000 00
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## GENERAL FUND—

Balance .....		20,962 50	
Receipts from County Treasurer .....	35,075 58		
“ “ Transfer from Market Fund..	85,000 00		
“ “ City Hall and Other Rents....	8,058 18		
“ “ General Licenses .....	5,403 82		
“ “ Hay Scales .....	1,217 81		
“ “ Other Sources .....	1,545 28		
	136,800 67		
Disbursements .....	126,806 44		
		9,994 23	
Balance .....			30,956 73

## FIRE DEPARTMENT FUND—

Balance .....		36,865 91	
Receipts from County Treasurer .....	154,332 56		
“ “ Other Sources .....	2,400 70		
	156,733 26		
Disbursements .....	159,970 44		
		3,237 18	
Balance .....			33,028 73

## INFIRMARY FUND—

Overdrawn .....		4,011 54	
Receipts from County Treasurer .....	75,252 27		
Rec'pts fr W. H. Eckman, City Cl'k, Licenses	6,611 00		
“ “ Other Sources .....	1,752 73		
	83,616 00		
Disbursements ....	59,973 63		
		23,642 37	
Balance .....			19,630 83

## HOUSE OF CORRECTION FUND—

Balance .....		28,739 90	
Receipts from County Treasurer .....	27,793 50		
“ “ W. D. Patterson, Supt .....	82,245 40		
“ “ Other Sources .....	9 37		
	110,048 27		
Disbursements .....	132,813 88		
		22,765 61	
Balance .....			5,974 29

## CITY TREASURER'S REPORT.

181

**POLICE COURT FUND—**

Balance.....		\$1,823 55	
Receipts from O. S. Gardner, Police Clerk....	\$9,224 66		
" " Other Sources.....	10 20		
	9,234 86		
Disbursements.....	9,882 03		
		147 17	
Balance.....			\$1,676 38

**VIADUCT SINKING FUND—**

Balance.....		643 03	
Rec'pts from Sale of Old Buildings and Rents		1,307 98	
Balance.....			1,951 01

**MARKET FUND—**

Balance.....		111,271 51	
Receipts from Premiums.....	6,745 70		
" " Rents.....	16,299 49		
" " Other Sources.....	25 26		
	23,070 45		
Disbursements, Including Transfers of \$95,000	108,237 18		
		85,166 73	
Balance...			26,104 78

**CUYAHOGA RIVER DREDGING—**

Overdrawn.....		23,128 33	
Receipts from County Treasurer.....	46,903 84		
" " Sale of Bonds.....	56,243 43		
	103,147 27		
Disbursements.....	74,262 08		
		28,885 19	
Balance .....			5,750 88

**CLEVELAND POLICE FUND—**

Balance.....		19,364 30	
Receipts from County Treasurer.....	150,891 97		
" " Other Sources.....	478 61		
	151,370 58		
Disbursements.....	157,546 21		
		6,175 63	
Balance.....			13,188 76

**INTEREST FUND—**

Balance.....		45,670 65	
Receipts from County Treasurer.....	406,876 75		
" " Water Works Department....	35,000 00		
" " A. & G. W. R. R. Co. in Set- tlement of Paving Tax. ....	5,638 88		
" " Other Sources.....	5,570 28		
	453,085 91		
Disbursements.....	417,237 24		
		35,848 67	
Balance.....			81,519 32

**SCHOOL CONSTRUCTION FUND—**

Balance.....		3,507 85	
Balance .....			3,507 85

**PARK FUND—**

Balance.....		\$13,098 60	
Receipts from County Treasurer.....	\$3,507 56		
"    "    Other Sources .....	202 37		
	<u>3,709 93</u>		
Disbursements.....	6,678 19		
		<u>2,968 26</u>	
Balance.....			\$10,130 34

**CANAL FUND—**

Overdrawn.....		1,531 32	
Receipts from Sale of Bonds.....	8,311 76		
Disbursements.....	<u>3,349 54</u>		
		<u>4,962 22</u>	
Balance.....			3,430 90

**CEMETERY FUND—**

Balance.....		2,167 42	
Disbursements.....		<u>1,914 78</u>	
Balance .....			252 64

**STREET FUND—**

Balance.....		14,457 37	
Receipts from County Treasurer.....	63,136 05		
"    "    Other Sources.....	7,885 60		
	<u>71,021 65</u>		
Disbursements.....	67,189 58		
		<u>3,832 07</u>	
Balance.....			18,239 44

**SPECIAL ROAD FUND—**

Overdrawn.....		35,183 52	
Receipts from County Treasurer.....	15,969 33		
"    "    Sale of Bonds.....	59,048 96		
	<u>75,018 29</u>		
Disbursements.....	36,492 67		
		<u>38,525 62</u>	
Balance.....			3,342 10

**GAS FUND—**

Balance.....		24,047 58	
Receipts from County Treasurer.....	105,226 74		
"    "    Transfer from Market Fund..	10,000 00		
"    "    Other Sources.....)	474 34		
	<u>115,701 08</u>		
Disbursements.....	131,304 19		
		<u>15,603 11</u>	
Balance....			8,444 47

**BRIDGE FUND—**

Balance.....		17,599 06	
Receipts from County Treasurer.....	26,045 27		
"    "    Other Sources.....	11 87		
	<u>26,057 14</u>		
Disbursements.....	38,357 71		
		<u>12,300 57</u>	
Balance.....			5,298 49

## CITY TREASURER'S REPORT.

183

## VIADUCT FUND—

Balance .....		\$156,884 54	
Receipts from Sale of \$567,000 00 Bonds and Premium. ....	\$578,397 99		
Disbursements .....	559,513 48		
		18,884 51	
Balance .....			\$175,719 05

## SEWER DISTRICT NO. 4—

Balance .....		13,877 49	
Rec'pts from County Treas., District Tax...	65 07		
" " " " Delinq't " ...	54 09		
	119 16		
Disbursements .....	9,653 46		
		9,534 30	
Balance .....			4,343 19

## SEWER DISTRICT NO. 5—

Balance .....		12,216 36	
Rece'pts from County Treas., District Tax...	761 04		
" " " " Delinq't " ...	11,749 66		
	12,510 70		
Disbursements .....	23,963 88		
		11,453 18	
Balance .....			763 18

## SEWER DISTRICT NO. 6—

Balance .....		1,707 08	
Disbursements .....	1,030 00		
Receipts from County Treas., District Tax. .	90 97		
		939 03	
Balance .....			768 05

## SEWER DISTRICT NO. 7—

Overdrawn .....		12,379 75	
Rec'pts from County Treas., District Tax...	20,279 45		
" " " " Delinq't " ...	27,811 59		
" " Sale of Bonds .....	4,225 81		
" " Other Sources .....	36 68		
	52,353 53		
Disbursements .....	39,362 51		
		12,991 02	
Balance .....			611 27

## SEWER DISTRICT NO. 8—

Overdrawn .....		2,467 51	
Rec'pts from County Treas., District Tax...	3,070 77		
" " " " Delinq't " ...	354 68		
" " Other Sources .....	2,903 86		
	6,329 31		
Disbursements .....	3,186 82		
		3,142 49	
Balance .....			674 96

## SEWER DISTRICT NO. 11—

Overdrawn .....		508 62	
Rec'pts from County Treas., District Tax...	1,289 25		
" " " " Delinq't " ...	764 87		
	2,054 12		
Disbursements .....	1,278 50		
		775 62	
Balance .....			207 00

**SEWER DISTRICT NO. 3, E. CLEVELAND—**

Receipts .....	\$3,180 83		
Disbursements.....	2,525 51		
Balance.....			\$654 82

**PROSPECT STREET—**

Balance.....		\$3,932 88	
Disbursements .....	6,632 00		
Receipts.....	4,881 90		
		1,750 10	
Balance .....			2,182 78

**PERRY STREET—**

Overdrawn.....		2,431 38	
Receipts.....	5,850 50		
Disbursements.....	2,806 01		
		3,463 49	
Balance.....			1,062 11

**ERIE STREET—**

Balance.....		468 53	
Disbursements.....	223 53		
Receipts.....	83 98		
		130 55	
Balance.....			328 98

**EUCLID AVENUE, EAST CLEVELAND—**

Balance.....		833 64	
Receipts.....	6,874 05		
Disbursements.....	3,487 12		
		3,386 93	
Balance.....			4,220 57

**CEDAR AVENUE, EAST CLEVELAND—**

Balance.....		18 87	
Receipts.....	2,408 07		
Disbursements.....	876 00		
		1,532 07	
Balance.....			1,550 94

**FAIRMOUNT STREET, E. CLEVELAND—**

Balance.....		325 62	
Receipts .....	1,165 95		
Disbursements.....	336 00		
		829 95	
Balance....			1,165 57

**EUCLID AVENUE, WEST OF ERIE—**

Balance.....		371 23	
Receipts.....	9,450 77		
Disbursements.....	8,927 00		
		523 77	
Balance .....			904 00

**GARDEN STREET—**

Overdrawn.....		7,541 11	
Receipts.....	26,324 13		
Disbursements.....	14,980 00		
		11,344 13	
Balance.....			3,803 02

**CENTRAL PLACE—**

Overdrawn. ....		632 20	
Receipts ... ..	18,138 85		
Disbursements.....	14,805 00		
		3,333 85	
Balance.....			2,701 65

## CITY TREASURER'S REPORT.

185

<b>SUMMIT STREET—</b>			
Overdrawn.....		\$2,495 31	
Receipts.....	\$10,119 90		
Disbursements.....	6,080 00		
		4,089 90	
Balance.....			\$1,594 59
<b>BOND STREET DAMAGES—</b>			
Overdrawn.....		2,755 50	
Receipts.....	51,804 92		
Disbursements.....	44,905 71		
		6,899 21	
Balance.....			4,143 71
<b>CHESTNUT RIDGE MACADAMIZING—</b>			
Balance.....		74 76	
Receipts.....	6,985 11		
Disbursements.....	6,482 98		
		502 15	
Balance.....			576 91
<b>FAIRFIELD STREET—</b>			
Balance.....		650 32	
Disbursements.....		75 00	
Balance.....			575 32
<b>SOUTH LOGAN STREET, BR. SEWER—</b>			
Balance.....		240 20	
Receipts.....	72 48		
Disbursements.....	52 00		
		20 48	
Balance.....			260 63
<b>CENTRAL WAY BRANCH SEWER—</b>			
Balance.....		1,460 81	
Disbursements.....		52 02	
Balance.....			1,408 39
<b>WILLSON AVENUE DAMAGES—</b>			
Balance.....		1,861 48	
Disbursements.....	9,598 74		
Receipts.....	7,737 08		
		1,861 66	
Balance.....			29 82
<b>ONTARIO STREET—</b>			
Overdrawn.....		1,000 36	
Receipts.....	5,908 82		
Disbursements.....	4,216 00		
		1,690 82	
Balance.....			591 46
<b>JEFFERSON STREET—</b>			
Overdrawn.....		1,439 87	
Receipts.....	7,724 45		
Disbursements.....	6,087 60		
		1,636 85	
Balance.....			216 98
<b>OLD RIVER STREET—</b>			
Overdrawn.....		908 53	
Receipts.....	4,200 61		
Disbursements.....	3,139 19		
		1,061 42	
Balance.....			152 89

<b>COMMERCIAL STREET, MAIN SEWER—</b>			
Balance .....	.	\$1,362 31	
Disbursements.....	\$3,816 09		
Receipts.....	1,959 58		
		1,356 51	
Balance.....			\$ 5 80
<b>SUPERIOR STREET REPAVING—</b>			
Receipts.....	4,082 73		
Disbursements.....	3,990 00		
Balance .....			92 73
<b>ST. CLAIR STREET DAMAGES—</b>			
Overdrawn.....		25,953 67	
Receipts .....	46,563 39		
Disbursements....	19,280 00		
		27,303 39	
Balance.....			1,349 72
<b>PAYNE AVENUE OPENING—</b>			
Overdrawn ..		648 70	
Receipts.....	107,275 89		
Disbursements. ....	100,049 75		
		7,226 14	
Balance.....			6,577 44
<b>SENECA STREET DAMAGES—</b>			
Overdrawn.....		236 23	
Receipts.....	13,026 45		
Disbursements.....	12,694 49		
		331 96	
Balance.....			95 73
			<u>\$507,779 33</u>

Respectfully submitted,

S. T. EVERETT,

*City Treasurer.*



**ANNUAL REPORT**

**OF THE**

**SINKING FUND COMMISSIONERS,**

**OF THE**

**CITY OF CLEVELAND,**

**FOR THE FISCAL YEAR 1878.**



# REPORT OF SINKING FUND COMMISSIONERS.

*To the Honorable City Council:*

**GENTLEMEN:—**The Sinking Fund Commissioners, in compliance with law, submit their Seventeenth Annual Report:

The gross income for the year is . . . . .	\$118,275 08
The expenses for the year are . . . . .	650 00
Leaving the net income . . . . .	<u>\$117,625 08</u>

The following statement from the books of the Board shows the receipts and expenditures of the year:

## RECEIPTS.

1878.

Jan. 11—For quarterly dividend on \$200,000 N. Y. C. & H. R. R. stock, (2 per cent.), . . . . .	\$ 4,000 00
Feb. 1—For semi-annual dividend on \$700,000 L. S. & M. S. R'y stock, (2 per cent.), . . . . .	14,000 00
April 1—For semi-annual interest on \$83,500 C., P. & A. R. R. 7 per cent. bonds, . . . . .	2,922 50
For semi-annual interest on \$52,500 L. S. R'y 7 per cent. bonds, . . . . .	1,837 50
For semi-annual interest on \$276,000 L. S. & M. S. R'y 7 per cent. bonds, . . . . .	9,660 00
For semi-annual interest on \$17,000 L. S. & M. S. R'y 7 per cent. bonds, . . . . .	595 00
For semi-annual interest on \$40,000 City of Cleveland 7 per cent. bonds, . . . . .	1,400 00

Apr. 15—For quarterly dividend on \$200,000 N. Y. C. & H. R. R'y stock, (2 per cent.), . . . . .	\$4,000 00
June 1—For semi-annual interest on \$25,000 C. & I. R. R. 7 per cent. bonds, . . . . .	875 00
For semi-annual interest on \$52,000 L. S. & M. S. R'y 7 per cent. bonds, . . . . .	1,820 00
For semi-annual interest on \$250,000 C. & N. W. R'y gold 7 per cent. bonds, . . . . .	8,750 00
For premiums on \$8,750 gold interest, . . . . .	65 63
July 1—For semi-annual interest on \$37,500 C., P. & A. R. R. 7 per cent. bonds, . . . . .	1,312 50
For semi-annual interest on \$39,000 J. & F. R. R. 7 per cent. bonds, . . . . .	1,365 00
For semi-annual interest on 300,000 City of Cleveland 7 per cent bonds, . . . . .	10,500 00
For semi-annual interest on \$15,000 City of Cleveland 6 per cent. bonds, . . . . .	450 00
For interest on deposits, . . . . .	909 75
For Jamestown & F. R. R. bonds matured, . . . . .	9,000 00
July 15—For quarterly dividend on \$200,000 N. Y. C. & H. R. R'y stock, (2 per cent.), . . . . .	4,000 00
Aug. 1—For semi-annual dividend on \$700,000 L. S. & M. S. R'y stock, (1 per cent.), . . . . .	7,000 00
For net proceeds of sales of bonds as follows:	
For L. S. & M. S. R'y, due 1899, \$3,000, at \$1.11, . . . . .	\$3,330 00
For L. S. & M. S. R'y, due 1899, \$12,000 at \$1.10 $\frac{3}{4}$ , . . . . .	13,290 00
For L. S. & M. S. R'y, due 1899, \$37,500 at \$1.10 $\frac{1}{2}$ , . . . . .	41,437 50
For C., P. & A. R. R. 2d mortgage, due 1880, \$37,500 at \$1.02 $\frac{3}{4}$ , . . . . .	38,531 25
For C., P. & A. R. R., due 1892, \$10,000 at \$1.10 $\frac{1}{4}$ , . . . . .	11,025 00
For C., P. & A. R. R., due 1892, \$73,500 at \$1.10 $\frac{1}{8}$ , . . . . .	80,941 88
Total, . . . . .	\$188,555 63
Less commissions on \$173,500, Par Value of above bonds @ $\frac{1}{8}$ per cent. . . . .	216 89
	<hr/> 188,338 74

# SINKING FUND COMMISSIONERS' REPORT.

191

Oct. 1—For semi-annual interest on \$276,000 L. S. & M. S. R'y 7 per cent. bonds, . . . . .	\$9,660 00
For semi-annual interest on \$17,000 L. S. & M. S. R'y 7 per cent. bonds. . . . .	595 00
For semi-annual interest on \$40,000 City of Cleve- land 7 per cent. bonds, . . . . .	1,400 00
Oct. 15—For quarterly dividend on \$200,000 N. Y. C. & H. R. R'y stock (2 per cent.) . . . . .	4,000 00
Dec. 1—For semi-annual interest on \$250,000 C. & N. W. R'y 7 per cent. bonds, . . . . .	8,750 00
For semi-annual interest on \$52,000 L. S. & M. S. R'y 7 per cent. bonds, . . . . .	1,820 00
For semi-annual interest on \$25,000 Cin. & Ind. R. R. 7 per cent. bonds, . . . . .	875 00
Dec. 31—For temporary loan made, . . . . .	86,000 00
For interests on deposits, . . . . .	3,823 95
1879.	
Jan. 1—For semi-annual interest on \$30,000 Jamestown & F. R. R. 7 per cent. bonds . . . . .	1,050 00
For semi-annual interest on \$300,000 City of Cleve- land 7 per cent. bonds . . . . .	10,500 00
For semi-annual interest on \$12,500 City of Cleve- land 6 per cent. bonds . . . . .	375 00
For cash on deposit January 3, 1878, as per report, ,	21,857 21
Total, . . . . .	<hr/> \$423,507 78

## EXPENDITURES.

1878.

Apr. 3—For paid express charges on interest coupons to New York, . . . . .	\$ 11 25
June 1—For paid express charges on interest coupons to New York . . . . .	9 00
July 1—For paid express charges on interest coupons to New York . . . . .	9 00
For paid \$25,000 Water Works bonds due (less \$2,500 in Sinking Fund) . . . . .	22,500 00
Aug. 8—For paid express charges on \$173,500 bonds forwarded to Chase & Atkins, New York, for sale . . . .	130 50
Oct. 1—For paid express charges on interest coupons to New York . . . . .	7 50
Dec. 31—For amount forwarded to New York to pay Water Works bonds due January 1, 1879 . . . . .	400,000 00
For paid expenses for the year . . . . .	650 00
For cash on deposit . . . . .	190 53
Total . . . . .	<u>\$423,507 78</u>

The following items constitute the Sinking Fund, January 1, 1879:

7,000 shares stock L. S. & M. S. R'y Co., par value . . . . .	\$700,000 00
2,000 shares stock N. Y. C. & H. R'y, par value . . . . .	200,000 00
L. S. & M. S. R'y 7 per cent. bonds, par value . . . . .	345,000 00
C. & N. W. R'y gold 7 per cent. bonds, par value . . . . .	250,000 00
Jamestown & F. R'y 7 per cent. bonds, par value . . . . .	30,000 00
Cin. & Ind. R. R. 7 per cent. bonds, par value . . . . .	25,000 00
Cleveland City Water Works 7 per cent. bonds, par value . .	300,000 00
Cleveland City Water Works 6 per cent. bonds, par value . .	12,500 00

SINKING FUND COMMISSIONERS' REPORT. 193

Cleveland City House of Correction 7 per cent. bonds, par value . . . . .	\$ 40,000 00
Cash on deposit . . . . .	190 53
	<hr/>
	\$1,902,690 53
Less bills payable . . . . .	86,000 00
	<hr/>
Total, . . . . .	\$1,816,690 53

Respectfully submitted,

H. B. PAYNE,  
CHARLES HICKOX,  
W. BINGHAM,  
J. H. WADE,  
Sinking Fund Commissioners.

CLEVELAND, O., January 6, 1879.





ANNUAL REPORT  
OF THE  
CITY CLERK,  
FOR THE  
YEAR ENDING DEC. 31ST, 1878.



## CITY CLERK'S REPORT.

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*To the Honorable City Council:*

GENTLEMEN:—I have the honor herewith to submit a detailed report of the cost of advertising and of printing and stationery supplies furnished to the several Departments of the Municipal Government during the fiscal year ending December 31, 1878, together with a statement showing the annual expenditure for the same class of supplies for the past four years.

The system of purchasing and ordering supplies of this kind, inaugurated last year under the provisions of an ordinance, entitled "An ordinance to regulate the ordering of printing, and the ordering and purchasing of stationery, blank work of all kinds, and other office supplies," passed December 10, 1877, has been carried out with the most satisfactory results, not only in effecting a very considerable reduction in the expenditure, but in making it possible to keep a systematic account, whereby any errors may readily be detected and rectified, and in guaranteeing the quality of the supplies furnished.

The aggregate reduction of the expenditure on this account, as compared with that of the preceding year, 1877, has been \$1,378 20, or \$6,955 64 less than the average annual expenditure for the four years from 1875 to 1878, inclusive.

The quality of supplies furnished the city has been fully up to the requirements of the contract in each instance.

The following table shows the amount charged to each Department on account of advertising ordered during the year :

City Clerk's Department.....	\$2,218 29
Civil Engineer's Department.....	261 84
Auditor's Department.....	151 71
Mayor's Department.....	478 21
Markets.....	17 48
Water Works Department.....	64 00
Fire Department.....	48 73
Workhouse.....	14 65
Treasurer's Department.....	4 50
Board of Improvements.....	4 13
Gas.....	25 60
Infirmity Department.....	57 41
Harbors and Wharves.....	16 00
Police Department.....	3 00
Health Department.....	60
<hr/>	
Total.....	\$3,366 15

The following table is an exhibit of the amount charged in each Department, for the several items specified, during the year 1878:

	Blank Books.	Printing.	Papers and Envelopes.	Stationery, Sundries.	Lithographing.	Engineer's Supplies.	Totals.
Mayor. ....		\$ 176 75					\$ 176 75
Board of Improvements..	\$ 48 50	8 00	\$ 7 00	\$ 11 56			73 06
Fire Department .....		80 00	9 97	20 13	\$ 14 00		124 10
Police Department. ....	169 65	651 85	68 79	35 53			928 82
Police Court. ....	9 44	62 50	9 50	45 29			126 73
Workhouse. ....	103 84	251 75	4 13	17 99	10 80		388 51
Infirmity Department....	3 50	83 25	4 35	21 68			112 76
Water Works Department	81 74	311 80	1 31	7 39			402 24
Auditor's Department. ...	145 96	912 00	53 64	42 22	620 87		1,774 69
Treasurer's Department		39 50	1 75	3 29			44 54
City Clerk's Department..	397 62	845 25	5 70	17 38	36 50		1,302 45
Solicitor's Department....	4 00	205 60	12 46	4 99			227 05
Civil Engineer's Dept. ....	51 67	12 50	49 32	15 80	1 50	\$50 23	181 02
St. Commissioner's Dept..		19 00	17 05	8 31			44 36
Markets .....		9 00	5 56	2 00			16 56
Health Department .....	18 00	116 50	3 48				137 98
Public Parks .....		5 00					5 00
Total.....	\$1,033 92	\$3,791 25	\$254 01	\$253 54	\$683 67	\$50 23	\$4,066 62

The annual expenditures for advertising and for stationery supplies and printing for the four years from 1875 to 1878, inclusive, have been as follows:

	PRINTING AND STATIONERY.	ADVERTISING.	TOTALS.
1875 .....	\$9,164 60	\$16,080 91	\$25,245 51
1876.....	9,697 29	10,367 10	20,064 39
1877.....	6,817 52	3,993 45	10,810 97
1878.....	6,066 62	3,366 15	9,432 77

Respectfully submitted,

W. H. ECKMAN,

*City Clerk.*



ANNUAL REPORT  
OF THE  
CITY SOLICITOR  
FOR THE  
YEAR ENDING DEC. 31st, 1878.





# CITY SOLICITOR'S REPORT.

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*To the City Council :*

I beg leave to submit herewith my fourth Annual Report. The office of the City Solicitor has experienced a great increase of official business since I came into possession thereof. To give some information on this point I refer to the tables embodied herein.

At the beginning of the year 1874 there were pending in the several Courts of the county and State, in which the city was directly interested as a party, 80 cases, and at the beginning of the year 1878 there were pending 154 cases, almost double the number there were in 1874. In the year 1874 there were pending and new cases commenced during the year, 160 cases ; in the year 1878 there were pending, and new cases commenced during the year, 252, almost double the number. The increase has been very great. This increase in the litigation of the city has been caused chiefly by the efforts on the part of property owners to restrain the collection of special assessments levied and assessed to pay the cost and expense of special improvements. During the period of prosperity many improvements were made for which the taxpayers, at the time, felt abundantly able to pay, but when times grew hard and business came to a stand still, these same taxpayers were led to contest the tax for the payment of the costs and expense of these same improvements. This greatly increased the litigation in which the city was engaged. The city still has numerous tax cases pending in the Court of Common Pleas, the District Court and the Supreme Court, awaiting final decision. The cases recently decided by

the Supreme Court are Kelly vs. Cleveland, Johnson vs. Cleveland, S. O. Griswold vs. Cleveland, and Wm. C. Scofield vs. Cleveland. The main point upon which these cases were decided against the city was the non-designation of the territory (to be taxed for street improvements) not bounding or abutting on the improvements, by the Board of Improvements or City Council.

Another important principle settled by these decisions is that unallotted lands must be, in the mind's eye, if not in fact, allotted for the purposes of assessing a special tax thereon; that is to say, that unallotted lands can be assessed only to a depth corresponding to the depth of lots on either side thereof, and, of course, this will restrict the city in some cases to a smaller area of taxable lands, for in many instances these unallotted lands run to a considerable depth, say 800 to 1,000 feet, whereas, under the decision of the court, unallotted lands can be taxed by their frontage to about, on an average, 150 to 200 feet deep.

There are other contested points in these cases, but the points I have suggested are the most important ones in my opinion; I will not, therefore, mention others. The amount of pecuniary interests that the city has in these cases will be about \$250,000, but there is a section of the Municipal Code in the following language:

SECTION 551. "Whenever it shall appear to the Council that any special assessment is invalid by reason of informalities or irregularities in the proceedings, or when any court of competent jurisdiction shall adjudge any such assessment to be illegal, the Council, whether the improvement has been made or not, shall have power to order a re-assessment."

The Supreme Court did not decide that the City of Cleveland has no just claim on the lands assessed for the cost and expense of this improvement, but the decision is simply that the assessment was not legally imposed, and there is nothing yet lost by the city. Of this sum of \$250,000, in which sum I have said the city is interested, the sum of about \$140,000 is taxed on abut-

ting lands, and about \$110,000 on non-abutting lands. So far as the lands bounding and abutting on the improvements are concerned, thus representing about \$140,000, I feel perfectly confident that a re-assessment will hold good in the courts. So far as the assessment on the non-abutting lands, representing about \$110,000, I will frankly say that there is a question. There are good arguments on both sides of the question, and the corporation can do nothing less than make an effort in this direction and let it be submitted to the courts. If such re-assessment should finally be sustained by the courts, and collected, there would be no serious results follow, and the property originally taxed and benefited would be obliged to bear the burden. But if the re-assessment could not be sustained in the courts, then about the sum of \$110,000 would go on the grand duplicate, and that amount would have to be paid by the property owners of the city at large.

There are several cases of another kind in the Supreme Court for final decision. These cases are known by the name of "street opening" cases, and include in the list "Sheriff street and Bond street assessments," and involve the same points of law as are raised in the "Payne avenue" cases. These cases were orally argued in the Supreme Court in the month of January, and a decision is daily expected, and may be made and promulgated before this report leaves my hands. What the decision will be is as yet a mere matter of conjecture, but in advance of the decision I can say for a certainty, being authorized so to do by the decision in the case of *Meissner vs. Toledo*, that the section of the Municipal Code which requires the Board of Improvements or City Council to designate the non-abutting lands to be assessed to pay part of the cost and expense of a "street opening" does not apply to such cases, and therefore we shall not be met by that difficulty in these cases. Speaking of probabilities, I can say that I think it can hardly be held, in any "street opening" case, that there is anything that will prevent us from making a re-assessment, thereby saving to the city any sub-

stantial loss in these "street opening" cases. These improvements were made during 1873 and 1874, and some of them previous thereto, under the Municipal Code which took effect in 1869. The Supreme Court had never passed upon these questions, and both my predecessors and myself were sustained in our views of the law by the Court of Common Pleas and the District Court in our county. The Supreme Court has finally set aside the decision of the city officers and the Court of Common Pleas of this county, and the District Court, holding that the manner of assessing the tax for the "improvement of streets" was erroneous, but in no case deciding that the full amount could not be legally re-assessed.

Of course this decision of the Court of last resort will greatly increase the labor of the Solicitor's Department, inasmuch as the work on these assessments will all have to be done over again, in order to charge the property at whose instance the improvements were made, with the cost and expense thereof.

In addition to these cases arising out of the contesting of these special taxes, there have been many other cases begun and a large number disposed of, but there are none of them of which I desire to make special mention, referring to the tables herein showing what cases have been brought and the number tried.

In addition to the litigation thus mentioned there have been many subjects to investigate and arrive at a conclusion upon. There have been referred to the Solicitor, in writing and reported upon in writing, three hundred questions involving important questions in law from the several departments of the city government.

Respectfully submitted,

WM. HEISLEY,

*City Solicitor.*

MARCH 24, 1879.

# REPORT OF CASES.

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## CASES PENDING JANUARY 1, 1878.

On the first day of January, 1878, there were pending in the various State Courts, to which the city of Cleveland was a party, or in which it was interested, *one hundred and fifty-four cases*, distributed as follows:

Supreme Court of Ohio.....	3
District Court of Cuyahoga County.....	40
Common Pleas Court of Cuyahoga County.....	111
Total number of cases.....	<u>154</u>

## CASES COMMENCED DURING 1878.

There were commenced during the year 1878, in the various State Courts, *ninety-eight cases*, distributed as follows:

Supreme Court of Ohio.....	14
District Court of Cuyahoga County.....	13
Common Pleas Court of Cuyahoga County.....	53
Probate Court of Cuyahoga County.....	5
Magistrates' Courts of Cuyahoga County.....	13
Total number of cases.....	<u>98</u>

Number of cases pending in said Courts on the first day of January, 1879, and commenced during said year.....252

## CASES DISPOSED OF DURING 1878.

District Court of Cuyahoga County.....	33
Common Pleas Court of Cuyahoga County.....	47
Probate Court of Cuyahoga County.....	4
Magistrates' Courts of Cuyahoga County.....	13
Total number of cases.....	<u>97</u>

Leaving *one hundred and fifty-five cases* pending in said Courts at the close of the year 1878.

#### ANALYSIS OF DAMAGE CASES PENDING JANUARY 1. 1878.

Of the cases pending on the first day of January, 1878, *forty-nine* were suits in which damage was claimed for injuries to person and property through the alleged fault of the city.

Amount claimed in these cases:

For Damage to Person.....	\$ 65,800 00
For Damage to Property.....	48,420 69
Total amount claimed.....	<u>\$114,220 69</u>

#### ANALYSIS OF DAMAGE CASES COMMENCED DURING THE YEAR 1878.

Of the cases commenced during the year 1878, *twenty-seven* were suits in which damage was claimed for injuries to person and property through the alleged fault of the city.

Amount claimed in these cases:

For Damage to Person.....	\$ 45,000 00
For Damage to Property.....	33,285 36
Total amount claimed.....	<u>\$ 78,285 36</u>

Total amount of damage claimed for injuries to person and property through the alleged fault of the city, in cases pending on the first day of January, 1878, and commenced during said year:

For Damage to Person.....	\$110,800 00
For Damage to Property.....	81,706 05
Total amount claimed.....	<u>\$192,506 05</u>

#### ANALYSIS OF CASES BROUGHT BY THE CITY, PENDING JANUARY 1, 1878, AND COMMENCED DURING 1878.

The number of actions pending on the first day of January, 1878, and commenced during said year, brought by the city for

various purposes, were *sixteen*. The amounts involved in these cases are as follows:

In five Cases pending January 1. 1878.....	\$14,172 09
In eleven Cases commenced during 1878.....	76,254 89
Total amount involved.....	<u>\$90,426 98</u>

*Three* of these cases, before Justices of the Peace, were disposed of during the year 1878, wherein judgments were recovered to the amount of \$393.40.

#### APPROPRIATION CASES APPEALED FROM THE PROBATE COURT.

There are *two* cases of this character now pending in the Court of Common Pleas, appealed by the claimants from the Probate Court, wherein damages were claimed and awarded in the latter Court as follows:

NAME OF STREET.	AMOUNT CLAIMED.	AMOUNT AWARDED.
Warner Road.....	\$10,000 00	\$ 150 00
Marquette Street.....	26,000 00	18,034 00
Total.....	<u>\$36,000 00</u>	<u>\$18,184 00</u>

The amount involved in the various suits for and against the city, pending January 1, 1878, and commenced during the year 1878, exclusive of injunction suits to restrain the collection of special assessments and general taxes levied by the city, and ejectment suits, wherein only real property is sought to be recovered, is:

In cases pending January 1, 1878.....	\$210,371 18
In cases commenced during 1878.....	154,540 26
Total amount.....	<u>\$364,911 44</u>

## INJUNCTION SUITS TO RESTRAIN THE COLLECTION OF TAXES.

Of the cases pending on the first day of January, 1878, and commenced during said year, *one hundred and nine* were suits wherein it was sought to restrain the collection of special assessments and general taxes levied by the city. The amount involved in these cases is, in round numbers, as follows:

6 cases, seeking to enjoin general taxes.....	\$ 20,000
103 cases, seeking to enjoin special assessments.....	1,500,000
Total amount.....	<u>\$1,520,000</u>

## ANALYSIS OF CASES DISPOSED OF DURING 1878.

Of the cases disposed of during 1878, *twenty-seven* were suits wherein damage was claimed for injuries done to person and property through the alleged fault of the city.

Amount claimed in the above disposed of cases:

For Damage to Person.....	\$26,500 00
For Damage to Property.....	18,085 00
Total amount claimed.....	<u>\$44,585 00</u>

There was no recovery in the courts on the part of the plaintiff in any of these cases, but *two* of them were considered meritorious by this Department and the parties settled with without trial. These cases were settled as follows:

Worswick Manufacturing Co. vs. City, for.....	\$300 00
Geo. P. Burwell vs. City, for.....	112 00
Amount received by said parties.....	<u>\$412 00</u>
Amount claimed by parties litigating the City during the year 1878 in the disposed of cases.....	\$44,585 00

A few of the leading cases disposed of during the year 1878 in favor of the city, are as follows:

*I. Hanna et al. vs. The City*, in the District Court, wherein plaintiffs claimed \$6,000 damage to their oil refining establishment by reason of the city's building a large embankment in front of their works in the improvement of Jennings avenue,



whereby the free circulation of air over their works was retarded, to their serious damage in the refining of oil, was decided in favor of the city.

*II. Kilcoyne vs. The City*, in which the plaintiff claimed \$3,000 damage for injuries received in falling over a defect carelessly left by the City on a sidewalk on Vermont street, was decided by a jury for the city.

*III. Cleveland and Willoughby Plank Road vs. The City*, wherein the Plank Road Company asked \$3,000 damages from the city, because the latter so negligently and improperly graded, paved and improved Euclid avenue, between Fairmount street and the easterly limits of the city, as to stop travel on plaintiff's plank road, to its serious injury, was decided in favor of the city.

*IV. McCarty vs. The City*, for constructing and maintaining a sewer in Center and Spruce streets in such a negligent and improper manner that the same stopped up and flooded plaintiff's cellar, whereby he suffered damage, in his house and otherwise, in the sum of \$500, was decided for the city.

*V. Reis et al. vs. The City*, wherein plaintiff and wife claimed \$3,000 damages for being precipitated from a high embankment on Tod street, which the city at night had left improperly guarded, during the time it was improving said street, the jury rendered a verdict of \$150 in favor of the plaintiffs, but the same was set aside by the Court as being against the law. Before the case was brought to trial the second time, it was settled by the contractor improving the street, without loss to the city.

*VI. Carroll vs. The City*, for permitting a sidewalk on Hanover street to get out of order, whereby the plaintiff slipped into a trench or hole, without fault on her part, to her alleged damage of \$10,000, was decided by the jury in favor of the city.

*VII. Walsh vs. The City*, in which the plaintiff claimed \$2,000 damage to her property on Ohio street, because the city allowed a nuisance to be maintained on the Haymarket, so-called, was decided for the city.

VIII. *Stanton vs. The City*, for injuries received by the plaintiff, a prisoner at the Workhouse, through the alleged fault of its officers in giving the plaintiff improper apparatus to work with, whereby he was damaged in the alleged sum of \$5,000, was decided for the city. This case is important as deciding the legal principle that the city is not responsible for the negligence of the officers of the Workhouse, and thereby decided other cases against the city in its favor, involving fully \$25,000.

IX. *Nixon vs. The City*, wherein plaintiff asked \$5,000 damage for not keeping up proper protection at bridge approaches on the part of the city, whereby plaintiff's horses, wagon and merchandise were precipitated into the Cuyahoga river, was decided on demurrer in favor of the city.

X. *Pears vs. The City*, for damage done to the plaintiff in the sum of \$5,500 in being thrown from a buggy, the horse attached thereto taking fright at a steam roller the city left standing at the side of Sterling avenue, and running away, was decided in favor of the city.

XI. *The State, for, etc., vs. The City*, being a suit against the city for the use of an armory building rented by a military company within the city without the authority or knowledge of the city, was decided on demurrer in favor of the city.

*Various Taxpayers vs. The City*, representing forty-two suits wherein numerous taxpayers sought to enjoin the City and County Treasurer from collecting the special assessments levied by the city for the following improvements: Bond street extension, Sheriff street extension, Broadway paving, Summit street extension, Kinsman street paving, Willson avenue grading, Superior street widening, Superior street grading, Hamilton street sewer, Chestnut Ridge street macadamizing, Jennings avenue grading, Woodland avenue widening, Woodland avenue paving, Willson avenue extension.

In each of these cases the city was successful excepting in three instances—Kinsman street paving, Summit street extension, and Superior street widening—where the court gave the plaintiffs

small abatements from the assessments as levied by the city, on the ground that the assessments exceeded twenty-five per centum of the value of the lots and lands assessed after the improvements were made.

In these cases the city succeeded in dissolving injunctions restraining the collection of nearly \$500,000 of special assessments that had been tied up two and three years.

#### PROBATE COURT BUSINESS.

There were *four* cases disposed of in the Probate Court during the year 1878, to appropriate land for school and bridge purposes, and ascertain damage done to abutting property by reason of grading the streets in front thereof.

#### APPROPRIATION CASES IN PROBATE COURT.

The following is a list of the cases tried to appropriate land for school and bridge purposes during the year 1878:

NAME OF CASE.	IMPROVEMENT.	AM'T OF AWARD.
Board of Education vs. Mary Slade.....	School Purposes.	\$4,760 00
City of Cleveland vs. Helen Sackett.....	Bridge Purposes.	600 00
Total.....		\$5,360 00

#### VALUE OF LAND APPROPRIATED SINCE 1872.

To show the immense amount in value of land appropriated for street, park and other purposes during the various years since 1872, when the law was changed allowing the cost and expense of a street opening or widening to be specially levied upon the property benefited, I append the following table:

Value of land appropriated in 1872.....	\$ 742,871 63
.. .. 1873.....	741,144 67
.. .. 1874.....	247,425 77
.. .. 1875.....	169,711 52
.. .. 1876.....	58,799 91
Value of land purchased for viaduct east of river and near thereto in 1877.....	318,186 00
Value of land appropriated in 1878.....	5,360 00
	<u>\$2,283,499 50</u>

STREET GRADING CASES.

The following are the cases tried in the Probate Court to assess the damages done to property owners caused by grading and improving streets during the year 1878:

NAME OF STREET.	DAMAGES CLAIMED.	DAMAGES AWARDED.
Warner Road.....	\$ 2,000 00	Jury Disa'g'd
Woodland Hills Avenue.....	22,800 00	\$2,229 45
Hamilton Street.....	2,500 00	350 00
Total.....	\$27,400 00	\$2,579 45

Number of cases tried during the year.	-	-	3
Amount of damages claimed.	-	-	\$27,400 00
Amount of damages awarded,	-	-	2,579 45
Percentage of award upon amount claimed,	-	-	9½

The remaining cases disposed of during the year 1878 were principally equity and error proceedings, wherein relief was sought, but no pecuniary compensation demanded.

CASES DISPOSED OF DURING 1878.

The nature of the proceedings in the disposed of cases was as follows:

Injunction suits, enjoining the collection of taxes	-	42
Damage suits, for injury to person	-	8
Damage suits, for injury to property	-	7
Action to subject land	-	3
Actions on contracts	-	3
Actions to recover real estate	-	3
Suits on verified claims	-	3
Suits when city was garnishee	-	3
Suits to recover taxes illegally collected	-	3
Suits to recover personal property	-	2
Street damage suits in Probate Court	-	2
Appropriation suits in Probate Court	-	2

Suits for water rent	2
Suit on award	1
Suit for rent of armory	1
Injunction suit, enjoining removal of ground	1
Injunction suit, enjoining Auditor	1
Suit upon information	1
Error case to Police Court	1
Appropriation case, appeal from Probate Court	1
Suit to remove obstruction from street	1
Action for wages	1
Error to Probate Court	1
Suit for injury to refinery	1
Suit as to right of way of railroad	1
Total number of cases disposed of during 1878.	95

## CASES PENDING DECEMBER 31, 1878.

Nature of the cases pending in the various courts at the close of the year 1878:

Injunction suits, enjoining special assessments.	61
Damage suits, for injury to property.	16
Damage suits, for injury to persons.	14
Error cases to Police Court.	10
Cases for equitable relief.	9
Injunction suits, enjoining general taxes.	6
Actions to subject lands.	5
Cases where city is garnishee.	5
Actions on contract with city.	3
Actions to recover real estate and damages.	3
Suits against the city as garnishee.	3
Appropriation cases, appeal from Probate Court.	3
Actions for possession of personal property.	2
Suits for street railroad assessments.	2
Suits to recover taxes illegally collected.	2
Suits for taking real property.	2
Suits on appropriation awards.	2

Suits to recover money paid for extra services.	-	2
Suits against the city for wages,	- - -	2
Actions on bonds given to the city,	- - -	2
Suit for grading damage, error to Probate Court.	-	1
Suit to recover general taxes on personal property.	-	1
Suit to enjoin removal of building.	- - -	1
Action for rental of land.	- - -	1
Action on account,	- - -	1
Street damage case pending in Probate Court.	-	1
		<hr/>
Total number of cases pending December 31, 1878	-	160

A TABULAR STATEMENT OF THE CASES TRIED IN THE PROBATE COURT TO ASSESS THE DAMAGES DONE TO THE  
PROPERTY OWNERS CAUSED BY THE GRADING AND IMPROVING OF STREETS FOR THE PAST NINE YEARS IS  
HEREWITH PRESENTED:

	Year End- ing April 1, 1870.	Year End- ing April 1, 1871.	Year End- ing April 1, 1872.	Year End- ing Dec. 31, 1873.	Year End- ing Dec. 31, 1874.	Year End- ing Dec. 31, 1875.	Year End- ing Dec. 31, 1876.	Year End- ing Dec. 31, 1877.	Year End- ing Dec. 31, 1878.
Cases Tried .....	5	9	12	12	9	11	15	14	3
Damages Claimed .....	\$34,189 00	\$122,775 00	\$83,080 00	\$31,979 00	\$99,475 00	\$44,168 25	\$157,441 00	\$105,685 00	\$27,400 00
Damages Awarded .....	\$6,989 00	\$23,078 00	\$16,794 00	\$6,749 85	\$21,233 25	\$2,480 00	\$18,143 29	\$3,138 12	\$2,579 45
Per Cent. Awarded on Amount Claimed .....	20 1/2	18 3/4	20	21	21 1/4	5 1/2	11 1/2	3	9 1/2

I ALSO PRESENT THE FOLLOWING TABULAR STATEMENT OF THE AMOUNT SOUGHT TO BE RECOVERED, AND THE AMOUNT ACTUALLY RECOVERED, IN THE DISPOSED OF CASES AGAINST THE CITY FOR THE PRECEDING NINE YEARS:

DISPOSED OF CASES.	Year End- ing April 1, 1870.	Year End- ing April 1, 1871.	Year End- ing April 1, 1872.	Year End- ing Dec. 31, 1872.	Year End- ing Dec. 31, 1874.	Year End- ing Dec. 31, 1875.	Year End- ing Dec. 31, 1876.	Year End- ing Dec. 31, 1877.	Year End- ing Dec. 31, 1878.
Number of Cases.....		46	30	46	70	87	94	85	97
Amount Claimed.....	\$15,150 00	\$51,500 00	\$25,817 20	\$10,500 00	\$34,987 00	\$114,379 00	\$40,447 07	\$98,285 00	\$44,585 00
Amount Recovered.....	\$240 00	\$1,000 00	\$395 14	\$1,650 00	\$767 00	\$250 00	\$9,079 25	\$4,428 92	\$412 00

This statement is not perfect, as there was no report for the year ending December 31, 1873, owing to the illness of the then City Solicitor. The municipal year formerly closed April 1st of each year, while it now closes with December 31st of each year.



A FURTHER STATEMENT FOR THE LAST FIVE YEARS IS AS FOLLOWS:

	1874.	1875.	1876.	1877.	1878.
Amount Sought to be Recovered in Cases Pending at the Close of the Year.....	\$131,620 00	\$144,698 17	\$151,671 28	\$124,335 00	\$320,326 44
Amount Sought to be Recovered in Cases Pending at the Beginning of and Instituted During the Year. ....		\$259,079 17	\$192,118 07	\$212,600 00	\$304,911 44

The last two statements do not contain the amount claimed and awarded in cases brought by the city for the appropriation of real property for street and other purposes, nor the amount of damages claimed by and awarded to property owners for grading and improving streets, as these amounts are paid by special assessments levied upon benefited property and not by general taxation.

#### GENERAL STATEMENT OF CITY'S LITIGATION.

For the purpose of showing the extent and increase of the city's litigation during the past *eight* years, the following statement is presented:

	1871.	1872.	1873.	1874.	1875.	1876.	1877.	1878.
Cases Pending at Beginning of Year.....	35	17	37	81	90	99	114	154
Cases Commenced During the Year.....	28	59	90	79	96	109	125	98
Cases Pending at Beginning of Year, and Commenced During Year..	63	76	127	160	186	208	239	252
Cases Disposed of During the Year.....	46	39	46	70	87	94	85	97
Cases Pending at End of Year.	17	37	81	90	90	114	154	155



TWENTY-THIRD

ANNUAL REPORT

OF THE

BOARD

OF

Trustees of Water Works,

TO THE

CITY COUNCIL

OF CLEVELAND, O.



# REPORT OF TRUSTEES OF WATER WORKS.

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*To the Honorable the Mayor and Council of the City of Cleveland:*

GENTLEMEN:—We have the honor of herewith presenting for your consideration the Twenty-third Annual Report of the Board of City Water Works, and so vital are the interests of this Department to the city, and its citizens at large, that we ask from your honorable body a careful perusal of all the reports hereto appended from the various heads of the Department, believing that you will find them full, explicit and correct in all their details.

We believe the Department to be in a very prosperous condition and so substantially provided in all its equipment that no needed outlay will be demanded for many years, other than for general pipe extensions, the repairs on the crib, and the usual expenses of ordinary repairs.

We feel that the efficiency of the present officers in charge, and their diligent and faithful assistants, are deserving of much commendation, and the present efficiency of the Department is largely due to their faithful performance of duty.

The duties, especially of the Engineer in Chief, have the past year been exceedingly arduous, owing to the destruction by storm (as referred to in his report) of a portion of the superstructure at the crib.

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We are in question as yet whether fault can be attached to any one on account of the damage accruing to this structure at the time of the storm referred to, but have the matter fully under advisement, and trust that at an early day we may be able to report to your honorable body a full statement of all the facts and conclusions arrived at. This we propose to do as early as the season will permit of a thorough examination by experts.

We are happy, however, to report that the sub-marine structure is in no way impaired, except as stated in the Superintendent's report, and can easily be made solid and permanent. We consider the structure, as a whole, as now protected, in a safe condition, and the repairs to be made can be done at the most propitious time without hurry or inconvenience to the regular routine of the ordinary demands of the Department.

The former ghastly appearance of the grounds about the pumping works have been much improved by laying out of the grounds, tree planting and sodding, and also providing against the flooding by surface water from the high bluffs in the rear.

The financial condition of the Department, as set forth by the Secretary, fully meets our expectation, and exceeds by several thousands of dollars his own estimate, as intimated in his former report. Exactness and cleanness are the characteristics of this office, and must meet the approval of all citizens.

A careful inspection at any and all times at the pumping works will reveal to the most critical the perfect order and decorum prevailing there. The improvements in new boilers at these works, to which Mr. Doty, the engineer in charge, refers in his report, are of the most substantial kind, and have ample steam capacity for present needs and abundant reserve for any emergency. We believe they were wisely planned and skillfully made, and from tests thus far fully meet our expectation.

With all the working departments under the direct supervision of the Engineer in Chief, with his practiced eye and habits of industry and economy, we feel we can bespeak for the future

continued prosperity, and at no distant day a more than self-sustaining department.

All of which is respectfully submitted.

ETHAN ROGERS.

TRUMAN DUNHAM.

N. P. BOWLER.

*Trustees of Water Works.*

Cleveland, March 6th, 1879.





# REPORT OF THE

## Secretary of the Board of Trustees.

*To the Board of Trustees of Water Works:*

GENTLEMEN:—In compliance with law I respectfully submit the following Annual Report.

The receipts and disbursements of this Department for 1878 and balances of cash are as follows:

### RECEIPTS.

Cash in City Treasury, January 1, 1878.....		\$55,326 22
Cash in Water Works Office, January 1, 1878.....		236 12
For Water, Including Permits, viz.:		
From Assessments.....	\$115,058 52	
From Meter Measure.....	45,577 98	
	160,634 48	
Less Amount Refunded.....	508 78	
		160,125 70
For Bills Receivable, Street Sprinkling Certificates.....		4,375 03
For Interest on Same.....		481 92
On Pipe Extension Account.....		919 94
On Office and General Expense Account.....		105 00
On General Repairs Account.....		101 69
On Engine House Expense Account.....		9 00
On Lake Crib Superstructure.....		1 00
Total.....		\$221,081 62

## DISBURSEMENTS.

BILLS AND PAY ROLLS CERTIFIED TO THE CITY AUDITOR FOR  
PAYMENT FROM THE WATER WORKS FUND.

For Office and General Expenses.....	\$21,738 98	
For General Repairs.....	5,878 33	
For Engine House Expenses.....	24,353 06	
For Repairs at Engine House.....	1,057 90	
For Pipe Extension.....	27,257 58	
For Water Meters.....	1,729 56	
For Final Payment Engine, etc., (Construction Account)	8,239 87	
For Interest on Deferred Payment on Engine.....	1,923 50	
For New Bollers, Fittings, and Setting Same.....	18,838 37	
On Lake Crib Superstructure Account.....	16,612 86	
On Lake Crib Protection Account.....	10,920 98	
On Lake Crib Repairs Account .....	15,619 37	
		\$154,170 36
For Payment of Interest on Water Works Bonds.....		35,000 00
Cash in City Treasury Subject to Draft, Jan. 1, 1879.....		31,159 31
Cash in Water Works Office, Jan. 1, 1879.....		1,351 95
Total. ....		\$221,681 62

For a detailed account of the expenditures reference may be had to the statement accompanying the report of the Superintendent and Engineer.

The expenditures for the ordinary running expenses and repairs for the year, after deducting credits to the several accounts and transferring twelve hundred and five dollars and forty cents to the debit of the general expense account—from the meter account for the estimated depreciation in value of water meters from wear and damage, are as follows:

For office and general expenses. . . . .	\$22,839 38
For general repairs. . . . .	5,776 64
For expenses at engine house. . . . .	24,344 06
For repairs at engine house. . . . .	1,057 90
	<hr/>
	\$54,017 98

The receipts for water for 1878 are in excess of the previous year the sum of seven thousand, three hundred and thirty-one dollars and two cents.

I estimate that the receipts for water for the year 1879 will amount to one hundred and sixty-five thousand dollars, and that the ordinary expenses and repairs will not exceed fifty-five thousand dollars.

The present liabilities of the Department, except bonded, are about ten thousand dollars.

The various departments of the city enumerated below are supplied with water without charge:

*School Department.*—Twenty principal school buildings and several smaller ones.

*Fire Department.*—Eleven engine houses, also eight hundred and seventy-three fire hydrants and a number of cisterns.

*Police Department.*—The Central and five precinct stations.

*Infirmity Department.*—The Infirmary on Scranton avenue and office on Champlain street.

*Workhouse Department.*—The Workhouse on Woodland avenue.

Water is also furnished without charge to the City Hall building and the elevator used therein, the market houses, parks, cemeteries, armory, for flushing sewers, puddling streets, and for other public uses, requiring in the aggregate a large quantity of water; and in case the same was paid for at tariff rates, the receipts for water would be largely increased.

LEDGER BALANCE, JANUARY 1, 1879.

FACE OF LEDGER.	DR.	CR.
Construction.....	\$2,472,978 63	
Interest.....	31,740 73	
Water Meters.....	10,848 68	
City Treasurer.....	31,159 31	
Cash.....	1,351 95	
Bonds Outstanding.....		\$1,300,000 00
Bonds Redeemed.....		425,000 00
Water Rent Income.....		774,605 70
City of Cleveland.....		48,473 60
Total.....	\$2,548,079 30	\$2,548,079 30

BONDED DEBT.

The bonded debt of the city for Water Works purposes has been decreased during the year by the payment from the Sinking Fund of four hundred and twenty-five thousand dollars of matured bonds, leaving the amount of outstanding bonds as follows:

Six Per Cent. Bonds Due July 1, 1879.....	\$ 25,000 00
Seven Per Cent. Bonds Due October 1, 1880.....	75,000 00
Seven Per Cent. Bonds Due January 1, 1881.....	100,000 00
Seven Per Cent. Bonds Due January 1, 1884.....	300,000 00
Seven Per Cent. Bonds Due May 1, 1892.....	400,000 00
Seven Per Cent. Bonds Due May 1, 1893.....	200,000 00
Six Per Cent. Bonds Due October 1, 1895.....	200,000 00
Total.....	\$1,300,000 00

The payment of all Water Works bonds that mature on, or before January 1, 1884, will also be made from the Sinking Fund.

No special provision has been made for the payment of bonds maturing subsequent to that time.

Respectfully submitted,

H. C. HAWKINS.

CLEVELAND, March 6, 1879.

*Secretary.*



# REPORT OF THE Superintendent and Engineer.

---

*To the Board of Trustees of Water Works:*

GENTLEMEN:—The undersigned would respectfully submit the following Annual Report upon the condition of the Works under his charge:

## LAKE CRIB.

The work remaining to be done to complete this structure, at the beginning of the season, was the setting of the two upper courses of masonry on the exterior wall, the building of the top series of brick arches, the putting on of the roof and the completion of the joiner work in the living rooms.

This work, with the exception of the roof, was finished early in July when the outer timber structure was removed by the contractor down to the water line, preparatory to the work of cutting the timbers off on a level about one foot above the base of the masonry. The timbers were then to be plated with heavy boiler iron on the top and down the face to preserve them from the injurious action of ice.

On the 22d day of July and before any of this work could be done a storm came on and carried away the timbers on the north face to a depth of five feet below the water line, exposing some of the loose stones with which the sub-structure is filled, to the action of the waves, and slightly displacing five or six of the outer stones in the foundation. These loose stones were secured from further movement by oak wedges, and steps were

taken to replace the timber as early as possible. This it was determined to do in a complete section, as an examination of the lower timbers seemed to indicate that some of them were split lengthwise and that the new work could only be made fast to the old by making it double thickness down to the old work, the outer course to extend four feet deeper, the lower part to be bolted to the old timber, the angles to be secured by iron plates.

Early in September Capt. Geo. H. Breyman, sub-marine diver, was engaged to prepare the top of the old timber to receive the new work and to secure the new timber in place.

Everything had been made ready and suitable weather for doing the work was anxiously awaited, but on the 11th a storm came on and lasted until the night of the 13th. After withstanding the storm for forty-eight hours the stones which had previously been loosened were washed out by the great force of the waves during the morning of the 13th. The waves then having access to the loose stones in the sub-structure the wall was soon undermined and the courses of masonry dropped successively into the cavity thus formed. In this manner the north wall and portions of the east and west walls were carried away.

As soon as the debris could be removed the timber section already mentioned was taken out and an attempt made to put it in place, but before it could be properly secured another storm came on and broke some of the fastenings and to prevent further damage it was towed ashore to await more favorable weather. Nearly a week elapsed before the lake was still enough to make the second attempt which, this time, proved successful, the divers working uninterruptedly for seventy-two hours.

Immediately after the masonry fell preparations were made to rebuild the timber walks up to the roof on the sides that had been carried away. The work proved to be exceedingly tedious and at times almost discouraging on account of the continu-



ous winds and consequent disturbance of the surface of the lake rendering sub-marine work near the surface or work just above the surface impossible, but by taking advantage of every moment, night or day, when the lake was still enough to permit work to be done, it was finally accomplished, the last trip out being made on the 24th day of December. The structure is now considered safe against the action of storms or floating ice.

The work of repairs was under the immediate charge of Mr. John Carnegie, to whose untiring industry, in a great measure, its successful accomplishment is due. Capt. Geo. H. Breyman is also deserving of special mention for his endurance and skill in doing the work under water. The cost of the work will be found in the table of expenditures hereto attached. A large quantity of stone has been thrown into the lake around the Crib. The effect is apparent in the increased stability of the structure during storms.

#### LAKE TUNNEL.

There has been no interruption to the flow of water through the tunnel since its opening five years ago, and for the past year the quality of the water has been unexceptionable. After the accident to the Crib, as a measure of precaution, a heavy covering of oak timber was fastened to the top of the inlet shaft to keep out any material that might fall in case of accident to the inner wall of the Crib.

#### ENGINE HOUSES AND MACHINERY.

The Engineer in charge of the pumping works has, in his report, given such a clear statement of the condition of the buildings and machinery under his care that it is not necessary here to add anything to what has been said. The recommendation to paint and repair the north building and the machinery therein contained as soon as the Cornish boilers are set in place, deserves your approval.

## PUMPING MAINS.

The pumping mains are both in good order, only two insignificant leaks having shown themselves during the year. The surface of Kentucky street hill over the main pipes has been covered with clay to prevent the sand from washing out and undermining the pipes during heavy rain storms.

## RESERVOIR AND GROUNDS.

The work of cleaning out the Reservoir was commenced April 22d and completed May 2d. While this was being done the water was all drawn off from both compartments at the same time, the supply to the city during the interval being pumped directly through the main pipes. The deposit of sediment was the least ever known, being less than three inches on the bottom and not to exceed one inch on the slopes. So small an accumulation of sedimentary matter during a period of four years is an evidence of the purity of the water furnished since the opening of the lake tunnel, previous to which time the annual deposit averaged about six inches.

The old wooden bridges leading to the valve rods have been removed. A stone slab with gauge marks has been set flush with the slope of the face of the embankment. The fence and railing on the top of the embankment and the fence on the line of Kentucky street received each two coats of paint. The grass on the outer slopes as also on the other portions of the lot was never in better condition.

## PIPE SYSTEM.

Only two serious leaks have occurred in the distributing mains during the year, one of them being an annular fracture in the thirty inch line in Bridge street probably caused by unequal settlement of earth under it and near the line of a main sewer. It was repaired in the usual manner by putting on cast iron clamps over the fracture.

The other leak was in the twenty inch line at the joint next west of the one connecting the river and land pipes opposite the

foot of Superior street and was doubtless caused by the settlement of the pipe under the river. It was repaired by covering the whole joint with a socket clamp and filling the space between that and the pipe with lead.

The total length of pipe of the different sizes from three inches diameter upwards now in use is 113 miles and 2670 feet, 5 miles and 2943 feet having been laid during the past year.

The total number of stop-gates is 1957 ; of this number 102 were set the past year.

There are now set and in good order 873 fire hydrants, 56 of which were set during 1878.

For particulars as to length, size and location of pipe laid and the location and size of gates and fire hydrants set, see accompanying tables.

## METERS.

There are now in use 291 water meters. Of this number 43 were set in 1878. The number of each of the different sizes in use is as follows:

3	-	-	4	inch	-	-	Worthington.
13	-	-	3	"	-	-	"
2	-	-	3	"	-	-	Union Rotary.
35	-	-	2	"	-	-	Worthington.
35	-	-	1½	"	-	-	"
4	-	-	1½	"	-	-	Ball & Fitts Piston.
61	-	-	1	"	-	-	"
27	-	-	1	"	-	-	Worthington.
38	-	-	¾	"	-	-	"
73	-	-	¾	"	-	-	Ball & Fitts Piston.

Total, 291

In addition to these meters there are 21 hydraulic elevators, to each of which is attached a register that records the quantity of water used.

The quantity of water sold by meter measurement during the year was 431,576,940 gallons. The total quantity pumped

was 2,892,946,283 gallons, making the daily average consumption 7,925,882 gallons, an increase of only 198,962 gallons over the daily average for 1877, notwithstanding an increase in the number of service pipes in use of 624.

## SERVICE PIPES.

The number of new service connections made during the year was 603, as follows:

4 inch,	-	-	-	-	4
3 " "	-	-	-	-	1
2½ " "	-	-	-	-	1
2 " "	-	-	-	-	5
1½ " "	-	-	-	-	4
1¼ " "	-	-	-	-	1
¾ " "	-	-	-	-	19
½ " "	-	-	-	-	568
Total,	-	-	-	-	603

The total number of service pipe connections made with the distributing mains since the construction of the works, with the different sizes of the same, is as follows:

6 inch,	-	-	-	-	1
4 " "	-	-	-	-	30
3 " "	-	-	-	-	31
2½ " "	-	-	-	-	1
2 " "	-	-	-	-	62
1½ " "	-	-	-	-	21
1¼ " "	-	-	-	-	3
1 " "	-	-	-	-	104
¾ " "	-	-	-	-	372
½ " "	-	-	-	-	9,417
Total,	-	-	-	-	10,042

There are 1,658 service pipes not in use, some of which have been permanently discontinued, others are shut off temporarily.

but the greater number have never been extended beyond the curb line of the street.

The number in actual use on the 31st day of December, 1878, was therefore 8,384, making an increase of 624 for the year. This number does not include the service pipes laid in the village of West Cleveland, that corporation being counted as one customer only, the water supplied being measured by an eight inch meter set on the corporation line, as agreed upon by the two corporations.

#### GENERAL.

Pursuant to an agreement made by your predecessors with the corporate authorities of the village of West Cleveland, an eight inch water pipe was laid in Detroit street to the westerly line of the city, and at that point connected with the pipe system previously laid by the authorities of that village. The water passes through an eight inch water meter set on the westerly line of the city, and is paid for semi-annually at this office by the village authorities at the rate of fifteen cents for each thousand gallons registered.

The cost of pumping in 1877 was \$6.02 for each million gallons pumped one hundred feet high. The cost of doing the same work in 1878 was \$5.49. The cost of pumping each million gallons into the reservoir, which is 160 feet high, was therefore  $84\frac{8}{10}$  cents less in 1878 than in 1877.

The items entering into the cost of pumping water will be found under the head of "Engine House Expenses" and "Engine House Repairs" in the appended tables of expenditures.

The amount received for each million gallons of water pumped in 1878 was \$1.10 more than in 1877, which, added to the saving in the cost of pumping, makes the increase in receipts for each million gallons pumped  $\$1.94\frac{8}{10}$ .

This increase in the amount received is not due to any increase in the water rates, for they remain the same, but is due to a decrease in the amount of water wasted, as will be seen in the table showing the quantity of water pumped each year since

the construction of the works, together with the percentage of increase for each year. In that table it will be seen that the increase for the year 1878 was only  $2\frac{57}{100}$  per cent., while the increase in the number of water takers for the same time was  $7\frac{44}{100}$  per cent. The decrease in water wasted may be attributed partly to the increased number of meters, but mainly to the very mild winter weather falling within the year.

The quantity of pipe that will be required for the coming season will, probably, not greatly exceed that laid in 1878. The funds available for that purpose will be ample.

Respectfully submitted.

JOHN WHITE LAW,

*Engineer and Superintendent.*

CLEVELAND, Feb. 20, 1879.

# REPORT OF THE Engineer in Charge Pumping Works.

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*To the Board of Trustees of Water Works:*

GENTLEMEN:—The operations of the Pumping Works have not been interrupted during the year just closed, although important changes have been made involving necessarily much risk at times.

## BOILERS.

The condition of the boilers in the north building having been set forth in my Report for 1877 and your subsequent action renders it possible for me to report the following important changes and improvements:

The boilers known as the new Cornish have been removed from the south building with a view to placing them in the north building the coming spring where they are much needed and better adapted than in their former place. Their place has been filled with four new boilers of the Marine or return flue variety constructed in a manner best adapted to our circumstances and set with a view to the greatest economy and convenience, adding at least 33 per cent. to the capacity of this building and developing a saving of 20 per cent. in fuel. This work having been begun late in the season (Aug. 8th) two of the boilers are not quite ready for use, but the others have been thoroughly tested and fully meet our expectations.

These boilers were constructed at the Cleveland Steam Boiler Works, Mr. D. Connelly, proprietor, under the direct supervision of Mr. Jacob Newman, long and favorably known in connection with the boiler works of the Cuyahoga Steam Furnace Co. No boiler repairs have been necessary since the new Cornish boilers were rebuilt in 1876: When the present plans are carried to completion viz: The new Cornish boilers placed in the north building the boilers will require no additional expenditure of money for many years and the boiler capacity will be largely in excess of the present engine capacity.

#### CORNISH ENGINES.

At the close of 1877 the main pump to the west Cornish engine was receiving a new lower valve chamber. This work was completed and the engine ready for service February 26th. 1878. Since that time no expense for repairs has been necessary on that engine. The repairs referred to as necessary on the east Cornish engines in my Report for 1877 have been made which places both Cornish engines and pumps in good order.

#### CUYAHOGA ENGINES.

June 12th plans were submitted anticipating improvements of some importance in the Cuyahoga engines. After proper consideration these plans were adopted, consisting principally in putting counterbalances upon the main steam valves. This work was completed August 6th, and the performance of the engines since has fully justified the expense incurred, as it secures an additional four inches of stroke, equal to about 10 per cent, with no corresponding expense for fuel. These improvements and some repairs of minor importance constitute all the expense upon these engines excepting the necessary attendance. They are in good repair and are held in reserve ready for service at any moment.

#### WORTHINGTON ENGINES.

After two and a half years almost constant service without accident and with very little expense aside from attendance I



can report the Worthington engines in good repair and doing regular daily service. Circumstances incident to changing boilers in this building compelled us to depend upon these engines principally for the supply of water since the 9th of September, and the severe weather the latter part of December required unusual effort to keep up the supply. These engines delivered water into the pipes at the rate of twelve million gallons in twenty-four hours, two million more than their guaranteed capacity, establishing a record that should clear up all doubt in regard to the wisdom of their purchase.

AMOUNT OF REPAIRS AND IMPROVEMENTS UPON EACH ENGINE  
FOR 1878.

		REPAIRS.	IMPROVEMENTS.
Cuyahoga Engines,	- -	\$108 52	\$627 20
Worthington Engines,	-	46 11	
East Cornish,	- - -	79 17	
West Cornish,	- -	520 35	

The item under the head of Improvements will be understood as expense incurred in putting in counterbalances, &c., upon the main steam valves mentioned in article on Cuyahoga engines.

—  
GENERAL.

The improved appearance of the inside of the south building since the walls were finished is more in keeping with the surroundings, but the delay of the contractors in carrying out the plans for gallery and staircase leaves the room still in an unfinished condition. We look forward with much interest to the time when this work shall be completed, as it will give us access to the upper rooms, which have been fitted up for drafting and store rooms.

Since the south building was erected the old house has been somewhat neglected in regard to painting, &c. I would, therefore, recommend that when the boilers are in their places and

ready for service the engines. walls and wood work be painted and such other repairs made as are needed upon the building. The coal sheds so long under contemplation are not yet a reality, but I am aware that work of more importance has occupied your time and required the means necessary for this work. We are in possession, however, of a new set of scales for weighing coal and other supplies consumed at the works, a much needed improvement.

A comprehensive tabular statement of the performance of each engine is herewith annexed, to which your attention is invited.

Respectfully submitted,

R. DOTY,

*Engineer in Charge of Pumping Works.*

## TABULAR STATEMENTS.

The following pages contain tabular statements showing the work of engines, distribution of water, extension and laying of pipes, location and number of stop-gates and hydrants set, abstract of expenditures, &c :



WORTHINGTON DUPLEX ENGINE, RECORD FOR 1878.

MONTH.	DAY.	PUMPING.		COAL CONSUMED.			GALLONS OF WATER PUMPED.	HEIGHT IN FEET AND DECIMALS.	DUTY.
		Hour.	Minutes.	Strokes.	Raising Steam.	Pumping.	Total.		
January.....	31	737	55	376,778	2,400	846,600	894,000	233,602,360	38,297,176
February.....	23	524	25	275,452	.....	575,471	575,471	170,780,240	39,048,974
March.....	25	539	10	262,522	3,800	516,056	519,856	162,763,640	41,430,477
April.....	26	503	.....	278,085	3,400	628,184	631,584	172,412,700	35,983,930
May.....	16	359	.....	177,546	2,800	399,647	402,447	110,078,520	38,077,281
June.....	30	703	15	368,362	.....	765,700	765,700	228,384,440	39,095,650
July.....	31	742	20	413,343	600	865,800	866,400	256,272,660	38,815,565
August.....	23	480	35	285,111	1,600	513,900	515,500	164,368,820	42,044,004
September.....	30	711	10	368,289	2,000	698,800	700,800	228,337,940	42,918,916
October.....	31	739	35	333,088	.....	575,600	575,600	208,374,560	47,645,619
November.....	30	717	15	319,408	3,400	549,400	552,800	198,032,960	47,463,583
December.....	31	744	.....	398,317	1,400	706,200	707,600	245,716,540	45,831,486
Totals and Averages..	327	7,621	40	3,837,299	21,400	7,641,358	7,662,758	2,379,125,380	40,905,115

HENDERSON DUPLEX ENGINE, RECORD FOR 1878.

MONTH.	PUMPING.				COAL CONSUMED.			GALLONS OF WATER IN FEET AND DUTY.		
	Days	Hours	Minutes	Strokes.	Raising Steam.	Pumping.	Total.	PUMPED.	HEIGHT IN FEET AND DECIMALS.	DUTY.
February .....	10	145	30	91,503	1,200	205,386	203,586	46,758,023	157.650	29,982,480
March .....	8	172	30	109,117	.....	223,044	223,044	52,604,432	157.542	31,056,723
April .....	6	126	50	87,738	800	174,616	175,416	42,272,168	156.749	31,708,776
May .....	17	381	45	263,612	1,300	553,453	554,753	128,645,089	156.657	30,394,075
June .....	3	16	35	12,069	2,800	35,805	38,605	5,971,228	156.611	21,824,424
August .....	14	263	25	174,497	.....	380,200	380,300	93,862,023	157.256	31,508,891
Totals and Averages ..	58	1,106	35	738,536	6,100	1,582,584	1,584,684	370,112,953	157.081	30,576,417

RECORD OF CORNISH ENGINES FOR THE YEAR 1878—EAST ENGINE.

MONTHS.	DAY.	Hour.	PUMPING.		COAL CONSUMED.			GALLONS OF WATER PUMPED.	HEIGHT IN FEET AND DECIMALS.	DUTY.
			Minutes.	Strokes.	Raising Steam.	Pumping.	Total.			
August.....	30	161	05	74,125	24,600	64,000	88,600	23,704,125	157.291	48,904,386
October.....	28	211	05	97,325	26,800	105,800	132,600	31,241,325	157.346	38,855,599
December.....	16	105	10	49,575	20,200	49,000	69,200	15,913,575	157.870	42,877,208
Totals and Averages.	62	477	20	221,025	71,600	218,800	290,400	70,949,025	157.502	42,711,039

RECORD OF CORNISH ENGINES—WEST ENGINE.

MONTHS.	DAYS.	PUMPING.		COAL CONSUMED.				GALLONS OF WATER PUMPED.	HEIGHT IN FEET AND DECIMALS.	DUTY.
		Hour.	Minutes.	Strokes.	Raising Steam.	Pumping.	Total.			
March.....	1	2	30	925	20,000	1,200	21,200	286,925	157.166	32,521,853
May.....	5	36	35	17,490	18,400	17,200	35,600	5,614,290	157.083	42,879,355
June.....	12	101	55	47,225	19,200	40,500	59,700	15,159,225	156.826	49,080,152
July.....	18	144	50	68,925	28,600	65,200	91,800	22,124,925	156.944	44,538,359
September.....	12	102	30	47,725	21,800	51,000	72,800	15,319,725	157.287	39,511,952
November.....	14	99	50	44,375	12,400	47,400	59,800	14,244,375	157.547	39,595,708
Totals and Averages..	62	488	10	226,665	118,400	222,500	340,900	72,759,465	157.142	42,974,117

BOTH ENGINES.

East Engine.....	62	477	20	221,025	71,600	218,800	290,400	70,949,025	157.502	42,711,039
West Engine.....	62	488	10	226,665	118,400	222,500	340,900	72,759,465	157.142	42,974,117
Totals and Averages..	124	965	30	447,690	190,000	441,300	631,300	143,708,490	157.322	42,842,578



ANNUAL REPORTS OF TOTALS AND AVERAGES FOR BOTH CORNISH ENGINES FOR EACH YEAR SINCE THE  
CONSTRUCTION OF THE WORKS.

YEARS.	PUMPING.		COAL CONSUMED.			DUTY.
	Hours.	Minutes.	Strokes.	Raising Steam.	Pumping.	
					Total.	AVERAGE HEIGHT IN FEET AND DECIMALS.
1857.....	1206	25	380,804	226,200	407,325	158,000
1858.....	1454	55	446,724	232,050	430,225	156,533
1859.....	1413	00	623,775	233,050	549,600	155,927
1860.....	1811	05	818,303	238,750	707,950	156,466
1861.....	2107	35	1,013,129	265,600	854,150	156,432
1862.....	2347	35	1,162,494	276,846	1,115,127	156,357
1863.....	2590	30	1,310,875	281,903	1,169,418	156,603
1864.....	2846	10	1,483,225	274,744	1,445,568	157,313
1865.....	2971	40	1,611,405	286,950	1,579,559	158,017
1866.....	3321	35	1,829,820	276,800	1,925,400	157,731
1867.....	3870	10	2,169,375	200,200	2,162,400	157,439
1868.....	4503	13	2,394,975	198,100	2,078,600	157,822
1869.....	5673	00	2,800,425	70,000	2,585,000	157,509
1870.....	6852	20	3,508,500	49,000	3,388,200	156,970

ANNUAL REPORT OF TOTALS AND AVERAGES FOR BOTH CORNISH ENGINES FOR EACH YEAR SINCE THE  
CONSTRUCTION OF THE WORKS.—CONTINUED.

YEARS.	PUMPING.		COAL CONSUMED.				GALLONS OF WATER PUMPED.	AVERAGE HEIGHT IN FEET AND DECIMALS.	DUTY.
	Hours.	Minutes.	Strokes.	Raising Steam.	Pumping.	Total.			
1871.....	8948	35	4,260,500	63,200	4,322,400	4,395,600	1,367,621,100	157,781	41,108,940
1872.....	10562	57	5,253,495	45,200	5,430,800	5,476,000	1,696,370,895	158,377	40,788,146
1873.....	12898	50	5,824,825	13,600	6,122,300	6,135,900	1,869,768,835	157,886	40,031,983
1874.....	11083	05	5,163,325	37,500	5,379,400	5,416,800	1,658,460,090	157,400	40,080,999
1875.....	651	07	321,415	143,500	339,585	483,085	103,228,048	158,180	27,775,460
1876.....	3019	40	1,362,428	128,304	1,363,400	1,521,794	437,720,867	156,662	33,120,599
1877.....	630	55	315,635	122,000	334,600	456,600	101,372,466	158,318	27,925,975
1878.....	965	30	447,090	190,000	441,300	631,300	143,708,490	157,322	42,842,578

SCHEDULE SHOWING THE DISTRIBUTION OF WATER FOR EACH MONTH AND DAY IN THE YEAR 1878.

MONTHS.		GALLONS OF WATER PUMPED.			GALLONS DISTRIBUTED.		
	Cornish Engine.	Henderson Duplex Engines	Worthington Duplex Engines	Per Month.	Average Per Day.	Each Inhabitant per day.	Each Consumer Per Day.
January.....			233,602,300	233,602,300	7,535,560	48.61	127.86
February.....		46,758,033	170,780,240	217,538,273	7,769,224	50.12	132.38
March.....	206,925	52,604,432	162,763,640	215,664,997	6,956,935	44.88	118.54
April.....		42,272,168	172,412,700	214,684,868	6,956,162	44.88	118.52
May.....	5,614,280	128,645,069	110,078,520	244,337,879	7,881,867	50.85	134.30
June.....	15,150,225	5,971,228	228,384,440	249,514,883	8,317,163	53.66	141.71
July.....	22,124,925		256,272,660	278,397,585	8,980,567	57.94	152.68
August.....	23,794,125	93,862,023	164,308,820	282,024,968	9,097,579	58.69	155.01
September.....	15,319,725		228,337,940	243,657,665	8,121,922	52.40	138.30
October.....	31,241,325		208,374,560	239,615,885	7,729,544	49.86	131.70
November.....	14,244,375		198,032,960	212,277,335	7,075,911	45.65	120.56
December.....	15,913,575		245,716,540	261,630,115	8,439,681	54.44	143.80
Totals and Averages.....	143,808,490	370,112,953	2,379,125,380	2,892,946,823	7,925,882	51.13	135.05

**SCHEDULE SHOWING THE TOTAL AND AVERAGE QUANTITIES OF  
WATER PUMPED EACH YEAR SINCE THE CONSTRUCTION  
OF THE WORKS.**

YEARS.	GALLONS DISTRIBUTED.				Per Cent. of Increase.
	Per Year.	Per Day.	Each In- habitant Per Day.	Each Consumer Per Day.	
1857.....	127,262,265	348,664	7.75	110.68	...
1858.....	142,155,434	398,467	8.37	93.44	11.70
1859.....	198,284,000	513,107	11.31	91.27	30.45
1860.....	260,220,354	710,984	14.11	101.57	31.87
1861....	322,175,022	881,599	16.82	114.50	23.81
1862.....	369,673,002	1,012,794	19.47	120.57	14.74
1863 ..	420,790,875	1,152,875	20.97	117.54	12.83
1864.....	476,114,225	1,300,858	21.68	123.89	12.14
1865.....	517,261,005	1,417,153	21.80	122.70	8.64
1866.....	587,372,220	1,609,239	22.35	124.26	13.55
1867.....	696,369,375	1,907,861	23.85	115.98	18.55
1868.....	768,786,975	2,106,265	24.77	116.08	10.40
1869.....	898,936,425	2,462,839	27.36	120.20	16.92
1870....	1,126,228,500	3,085,558	30.86	113.20	25.28
1871.....	1,367,621,100	3,746,907	35.68	124.90	21.43
1872.....	1,686,370,895	4,607,571	40.07	131.64	22.67
1873.....	1,899,768,835	5,095,230	43.06	137.71	10.85
1874.....	2,050,252,910	5,625,150	45.36	141.10	9.65
1875.....	2,216,775,816	6,073,358	44.00	136.65	8.12
1876.....	2,399,225,403	6,573,220	49.22	131.28	8.23
1877.....	2,820,326,074	7,726,920	55.91	142.24	17.55
1878.....	2,892,940,823	7,925,882	51.13	135.06	2.57

SCHEDULE SHOWING THE EXTENSION OF WATER PIPE IN 1878.

SIDE.	SIZE.	STREET.	BETWEEN WHAT POINTS.	FEET LAID.	TOTAL.	REMARKS.
South.....	8 inch.	Clark Avenue.....	Tee in Burton, west.....	48		
South.....	8 "	Cedar Avenue.....	E. L. Willson to Harnet.....	2,010		
South.....	8 "	Detroit.....	From 182 feet west of Oakland to City Limits.....	1,071		
East.....	8 "	Gordon Avenue.....	Across Detroit.....	66		
North.....	8 "	Payne Avenue.....	Tee in Wason to Tee in Dayton.....	145		
North..	8 "	Payne Avenue.....	Tee in Aaron to 56 east of Buckeye.....	253		
North.....	8 "	Payne Avenue.....	Tee in Dayton to Tee in Clifton.....	310		
North.....	8 "	Payne Avenue.....	Tee in Willson Avenue to Tee in Willard.....	625		
South.....	8 "	Superior.....	40 East of Dunham Avenue, east.....	649	5,175	Total 8 in. pipe.
East.....	6 "	Arlington.....	Tee in Garden, south.....	507		
West.....	6 "	Cross.....	Tee in Fourth north to Connect Pipe.....	151		
East.....	6 "	Clifton.....	S. L. St. Clair, south.....	286		
East.....	6 "	Dayton.....	N. L. Kelley to Tee in Payne.....	590		
East.....	6 "	Florence.....	N. L. Woodland, north.....	6		
East.....	6 "	Guernsey.....	S. L. Lorain, south.....	6		
South.....	6 "	Howard.....	Tee in Scranton, west.....	32		

SCHEDULE SHOWING THE EXTENSION OF WATER PIPE IN 1878.—CONTINUED.

SIDE.	SIZE.	STREET.	BETWEEN WHAT POINTS.	FEET TOTAL.	REMARKS.
West .....	6 "	Harkness .....	N. L. Euclid, north .....	1,741	
East .....	6 "	Henry.....	N. L. Woodland to Tee in Scovill.....	989	
East .....	6 "	Hackman.....	Tee in Scovill to Hydrant at Garden .....	1,127	
East .....	6 "	Jersey.....	E. L. Fulton to Tee in Jay .....	146	
West .....	6 "	Jennings. ....	Hydrant at Jerry to Connect Pipe at Starkweather..	1,510	
North .....	6 "	Jefferson.....	Cross in University to Cross in Professor.....	530	
South .....	6 "	Kelley.....	Tee in Buckeye to E. L. Buckeye .....	24	
East .....	6 "	Lawrence.....	Tee in Lake to Cross in King.....	351	
South .....	6 "	Lake .....	Tee in Lawrence to W. L. Lawrence.....	38	
East .....	6 "	Liberty.....	S. L. Franklin, south.....	723	
West .....	6 "	Morse .....	S. L. Euclid, south .....	6	
East .....	6 "	Madison Avenue.....	S. L. Home to Hydrant north of Hough.....	1,123	
South .....	6 "	Mason.....	Tee in Willson Avenue to Tee in Willard.....	420	
South .....	6 "	Ohio .....	70 E. of N. L. Woodland to W. L. Erie .....	426	
East .....	6 "	Putnam.....	N. L. Woodland to Cross in Scovill.....	10,313	
West .....	6 "	Professor.....	Cross in Jefferson to Cross in College.....	1,158	

SCHEDULE SHOWING THE EXTENSION OF WATER PIPE IN 1878. CONTINUED.

SIDE.	SIZE.	STREET.	BETWEEN WHAT POINTS.	FEET LAID.	TOTAL.	REMARKS.
East .....	6 "	Richland .....	Tee in Quincy, north.....	54		
North.....	6 "	Viaduct.....	Tee in Tyler Alley, east.....	20		
North.....	6 "	Woodbine.....	Tee at Harbor to W. L. Fulton.....	1,775		
South .....	6 "	Whitman .....	W. L. Kentucky to Y in Woodbine.....	611		
East .....	6 "	Willet.....	N. L. Chatham to Sprinkler near Lorain.....	638		
East .....	6 "	Willard.....	Tee in Payne to Tee in Mason.....	1,432		
East .....	6 "	Ward .....	From Tee Monroe to 33 S. of Lorain.....	1,126		
East .....	6 "	York.....	Cross in Jay to S. L. Vestry.....	237	18,225	Total 6 in. Pipe. Relaid.
East .....	4 "	Bond.....	S. L. St. Clair to 75 N. of Rockwell.....	215		
East .....	4 "	Buckeye .....	Tee in Payne to Tee in Kelley.....	563		
East .....	4 "	Clifton .....	Tee in Payne to S. L. Payne.....	45		
North.....	4 "	Fourth.....	Hydrant at Commercial to Tee in Cross.....	566		
East .....	4 "	Glendale.....	Tee in Cedar, south.....	502		
North.. ...	4 "	Jay.....	Tee in Jersey to E. L. Jersey.....	28		
South.....	4 "	Lake .....	Tee in Canfield, west.....	318		
South.. ...	4 "	King.....	Cross in Lawrence to E. L. Lawrence.....	30		

SCHEDULE SHOWING THE EXTENSION OF WATER PIPE IN 1878.—CONTINUED.

SIDE.	SIZE.	STREET.	BETWEEN WHAT POINTS.	FEET LAID.	TOTAL.	REMARKS.
North .....	4 inch.	Mulberry .....	Tee in Pearl to Cross in Spruce.....	453		
South .....	4 "	Sumner .....	E. L. Erie to Tee in Brownell.....	1,150		
South .....	4 "	St. Clair.....	Hydrant E. of Courtland, east.....	157		
North.....	4 "	Viaduct.....	Tee in Tyler Alley, west.....	231		
North.....	4 "	Washington.....	Tee in Center, West.....	330		
East .....	4 "	Waring.....	S. L. St. Clair to Red. at Superior.....	858		
	4 "	Hydrant Connections.....		500	6,110	Total 4 in. Pipe.
South.....	3 "	Superior .....	From Cistern Con. to Sprinkler Op. Forest City House	38	38	Total 3 in. Pipe.
Total Feet of Pipe Laid in 1878. ....					29,548	



TOTAL FEET OF PIPE LAID TO DECEMBER 31, 1878.

Diameter of Pipe in Inches.....	36	30	24	20	16	12	10	8	6	4	3
Laid previous to 1878.....	2,000	13,079	9,980	10,844	12,514	8,440	68,078	81,506	223,929	124,924	14,673
Laid in 1878.....								5,175	18,225	6,110	38
Total.....	2,000	13,079	9,980	10,844	12,514	8,440	68,078	86,681	242,154	131,034	14,711
Taken up in 1878.....										205	
Total in use.....	2,000	13,079	9,980	10,844	12,514	8,440	68,078	86,681	242,154	130,829	14,711

48,917	550,883
RECAPITULATION.	
48,917 feet of Supply Main, equal to.....	9 Miles, 897 Feet.
550,883 feet of Distributing Main, equal to.....	104 " 1,773 "
599,310 feet of Pipe, equal to.....	113 " 2,670 "

**SCHEDULE SHOWING SIZE, NUMBER AND LOCATION OF STOP  
GATES SET IN 1878.**

<b>No.</b>	<b>SIZE.</b>	<b>STREET.</b>	<b>SIDE.</b>	<b>LINE OF STREET.</b>
1	8 inch.	Clark Avenue .....	South,	W. L. Burton.
1	8 "	Cedar Avenue .....	"	2 East of Hydrant at C. & P. R. R.
1	8 "	Cedar Avenue .....	"	W. L. Harnet.
1	8 "	Detroit .....	"	W. L. Gordon Avenue.
1	8 "	Detroit .....	"	5 E. of City Limits.
1	8 "	Gordon Avenue .....	East,	N. L. Detroit.
1	8 "	Gordon Avenue .....	.....	S. L. Detroit.
1	8 "	Payne Avenue...	North,	W. L. Willson Avenue.
8	.....	Total 8 inch valves set in 1878.		
1	6 inch,	Arlington.....	East,	S. L. Garden
1	6 "	Curtiss .....	South,	E. L. Willson.
1	6 "	Dayton.....	East,	S. L. Payne.
1	6 "	Florence .....	"	N. L. Woodland.
1	6 "	Howard .....	South,	W. L. Scranton.
1	6 "	Henry .....	East,	S. L. Scovill.
1	6 "	Hackman .....	"	N. L. Scovill.
1	6 "	Harkness .....	West,	2 ft. N. of Sec. Hydrant N. of Euclid
1	6 "	Jennings .....	"	N. L. Branch.
1	6 "	Jennings .....	"	N. L. Jerry.
1	6 "	Jefferson.....	North,	W. L. University.
1	6 "	Jefferson.....	"	E. L. Professor.
1	6 "	Liberty .....	East,	S. L. Franklin.
1	6 "	Lawrence.....	"	N. L. Lake.
1	6 "	Mason .....	South,	W. L. Willson Avenue.
1	6 "	Madison.....	East,	S. L. Home.
1	6 "	Madison .....	"	S. L. Hough.
1	6 "	Professor.....	West,	N. L. Jefferson.

**SCHEDULE SHOWING THE SIZE, NUMBER AND LOCATION OF  
STOP GATES SET IN 1878.- CONTINUED.**

<b>No.</b>	<b>SIZE.</b>	<b>STREET.</b>	<b>SIDE.</b>	<b>LINE OF STREET.</b>
1	6 inch,	Putnam.....	East,	S. Scovill.
1	6 "	Richland.....	"	N. L. Quincy.
1	6 "	Ward.....	"	N. L. Monroe.
1	6 "	Willard.....	"	S. L. Payne Avenue.
1	6 "	Willard.....	"	N. L. Mason.
1	6 "	Woodbine.....	North,	E. L. Harbor.
1	6 "	Woodbine.....	"	W. L. Kentucky from the South.
1	6 "	Whitman.....	South,	S. L. Woodbine.
1	6 "	York.....	East,	N. L. Jay.
27		Total number of 6 inch valves set in 1878.		
1	4 inch,	Buckeye... ..	East,	S. L. Payne.
1	4 "	Fourth.....	North,	W. L. Cross.
1	4 "	Glendale... ..	East,	S. L. Cedar.
1	4 "	King.....	South,	E. L. Lawrence.
1	4 "	Lake.....	"	W. L. Canfield.
1	4 "	Mulberry.....	North,	W. L. Spruce.
1	4 "	Mulberry.....	"	W. L. Hemlock.
1	4 "	Sumner.....	South,	W. L. Brownell.
1	4 "	Washington.....	East,	W. L. Center.
1	4 "	Waring.....	"	N. L. Superior.
56	4 "	Valves for Hydrant connections.		
66		Total number of 4 inch valves set in 1878.		
1	3 inch,	Superior.....	South,	14 ft. E. of E. Curb Op. F. C. House.
102		Valves of all sizes set in 1878.		

RECAPITULATION OF STOP GATES.

Water Way in Inches .....	36	30	24	20	16	12	10	8	6	4	3	
Set previous to 1878.....	1	14	7	14	19	15	90	144	483	799	259	1,855
Set in 1878.....								8	27	66	1	102
Total in use.....	1	14	7	14	19	15	90	152	520	865	260	1,957

## SCHEDULE SHOWING THE LOCATION OF FIRE HYDRANTS SET IN 1878.

NO.	SIZE.	STREET.	FEET.	LOCATION.	SIDE.
1	4 in.	Arlington.....	507	S. of Garden.....	East.
2	4 "	Buckeye.....	142	S. of Payne Avenue.....	East.
3	4 "	Cedar Avenue.....	282	E. of Willson Avenue.....	South.
4	4 "	" "	12	W. of C. & P. R. R. ....	South.
5	4 "	" "	130	W. of Glendale .....	South.
6	4 "	" "	...	W. L. Harnet .....	South.
7	4 "	Dayton.....	292	S. of Payne Avenue.....	East.
8	4 "	Detroit.....	586	W. of Oakland.....	South.
9	4 "	" .....	12	E. of Gordon.....	South.
10	4 "	Fourth.....	108	E. of Cross.....	North.
11	4 "	Glendale.....	592	S. of Cedar.....	East.
12	4 "	Harkness Avenue...	387	N. of Euclid.....	West.
13	4 "	" "	820	N. of Euclid.....	West.
14	4 "	" "	1271	N. of Euclid.....	West.
15	4 "	" "	1741	N. of Euclid.....	West.
16	4 "	Henry.....	389	N. of Woodland.....	East.
17	4 "	" .....	142	S. of Scovill.....	East.
18	4 "	Hackman .....	258	N. of Scovill.....	East.
19	4 "	" .....	410	S. of Garden .....	East.
20	4 "	Jennings Avenue...	13	N. of Auburn.....	West.
21	4 "	" "	13	N. of Branch Avenue.....	West.
22	4 "	" "	...	S. L. Jerry.....	West.
23	4 "	" "	352	N. of Jerry.....	West.
24	4 "	Jefferson.....	...	E. L. Professor.....	North.
25	4 "	Lawrence.....	...	S. L. King.....	East.
26	4 "	Liberty.....	352	S. of Franklin.....	East.
27	4 "	" .....	723	S. of Franklin.....	East.
28	4 "	Madison Avenue...	16	N. of Gray .....	East.
29	4 "	" "	191	S. of Hough .....	East.
30	4 "	" "	202	N. of S. L. Hough.....	East.
31	4 "	Ohio.....	347	W. of Erie.....	South.
32	4 "	Payne Avenue .....	...	W. L. Kirtland .....	North.
33	4 "	Putnam.....	227	N. of Woodland .....	East.

**SCHEDULE SHOWING THE LOCATION OF FIRE HYDRANTS SET IN  
1878—CONTINUED.**

NO.	SIZE.	STREET.	FEET.	LOCATION.	SIDE.
34	4 in.	Putnam .....	546	N. of Woodland .....	East.
35	4 "	" .....	236	S. of Scovill .....	East.
36	4 "	Sumner .....	224	E. of Erie .....	South.
37	4 "	" .....	599	E. of Erie .....	South.
38	4 "	" .....	153	W. of Brownell .....	South.
39	4 "	Superior .....	340	E. of Dunham .....	South.
40	4 "	" .....	128	W. of Giddings .....	South.
41	4 "	Vladuct .....	231	W. of Tyler Alley .....	North.
42	4 "	Woodbine .....	381	E. of Harbor .....	North.
43	4 "	" .....	2	W. of W. L. Kentucky from S.	North.
44	4 "	" .....	146	W. of Duane .....	North.
45	4 "	Whitman .....	181	West of Woodbine .....	South.
46	4 "	Willet .....		At Chatham .....	East.
47	4 "	" .....	238	S. of Lorain .....	East.
48	4 "	Willard .....	112	S. of Payne Avenue .....	East.
49	4 "	" .....	523	S. of Payne Avenue .....	East.
50	4 "	" .....	436	N. of Mason .....	East.
51	4 "	" .....		At Mason .....	East.
52	4 "	Ward .....	226	S. of Lorain .....	East.
53	4 "	" .....	112	S. of Chatham .....	East.
54	4 "	Washington .....		At A. & G. W. R. R. ....	North.
55	4 "	Waring .....	145	S. of St. Clair .....	East.
56	4 "	" .....	198	N. of Superior .....	East.

56 Set in 1878.

817 Set previous to 1878.

873 Total in use December 31, 1878.

## ABSTRACT OF EXPENDITURES FOR JANUARY, 1878.

BILLS RENDERED BY	FOR	Pipe Ex- tension.	General Repairs.	Office and Gen. Expens's	Engine House Expens's	Engine House Repairs.	Water Meters.	Interest.	Total.
Pay Rolls.....	Labor.....		\$243 97	\$1,618 60	\$1,225 61	\$187 80			\$3,375 98
Lord, Bowler & Co. ....	Water Valves.....	\$40 50							40 50
P. Huberty.....	Cabinet Work .....			144 50					144 50
Worswick Manufacturing Co. .	Iron Fittings.....			7 46					7 46
Cleveland, Brown & Co. ....	Repairing Sidewalk.....			11 82					11 82
Otto Konigslow.....	Repairing Work.....		1 50						1 50
Wm. S. Wight.....	Water Tank.....			33 85					33 85
K. Hartman .....	Repairing Lamp.....		1 00						1 00
Wm. C. Earl .....	Water Rent Receipts, etc. .			21 50					21 50
W. Bingham & Co. ....	Hardware.....			3 10					3 10
Short & Forman.....	Stationery, etc .....			19 28	20 00				39 28
Strong, Cobb & Co. ....	Paints and Oils .....			99					99
Carother Bros.....	Drop Lights .....			2 00					2 00
Geo. Cooper & Co. ....	Duck Cloth .....			2 50					2 50
P. Ryan.....	Hauling Meters.....			1 50					1 50
V. Swain's Sons.....	Blocks, etc.....					6 40			6 40
Thas. D. Everett, Assignee ..	Soap Compound.....				1 15				1 15

ABSTRACT OF EXPENDITURES FOR JANUARY, 1878—(CONTINUED).

BILLS RENDERED BY	FOR	Pipe Ex- tension.	General Repairs.	Office and Gen. Expens's	Engine House Expens's	Engine House Repairs.	Water Meters.	Interest	Total.
E. W. Kellogg & Co.....	Cylinder Oil ..				\$ 117 55				\$ 117 55
Geo. A. Stanley.....	Lard Oil.....				30 36				30 36
J. Ingraham .....	Cotton Waste.....				46 51				46 51
H. R. Worthington. ....	Meter Dials.....			\$ 18 75					18 75
Cleveland Rubber Co.....	Rubber Ring.....					\$ 20 00			20 00
Peoples' Gas Co.....	Gas.....				24 68				24 68
Globe Iron Works.....	Blacksmithing.....					46 65			46 65
J. J. Parsons.....	Copper Gaskets.....					1 15			1 15
Edwards, Townsend & Co. ...	Brooms .....				2 50				2 50
Total .....		\$40 50	\$343 97	\$1,888 35	\$1,495 91	\$234 45			\$4,003 18



ABSTRACT OF EXPENDITURES FOR FEBRUARY, 1878.

BOARD OF TRUSTEES OF WATER WORKS.

267

BILLS RENDERED BY	FOR.	Pipe Ex- tension.	General Repairs.	Office and Gen. Expens's	Engine House Expens's	Engine House Repairs.	Water Meters	Interest.	Total.
Pay Rolls	Labor		\$ 238 86	\$ 1,597 12	\$ 1,215 33	\$ 58 80			\$8,170 11
Fred Hempy	Wood-plugs	\$ 1 20							1 20
M. Fielding	Relaying Pavement		6 75						6 75
Clevel'd Ship Chandlery Co.	Canvas		75						75
B. P. Bowers	Plumbing			47 02					47 02
Worswick Manufacturing Co.	Fittings			34 31					34 41
Herald Pub. Co.	Advertising			1 50					1 50
Chas. H. Clark	Coal			11 25					11 25
H. R. Worthington	Repairing Meters			28 88					28 88
Cleveland Gas Light Co.	Gas			7 35					7 35
William Gaul	Sand and Manure			2 50		1 25			3 75
Carothers Bros.	Drop-light, etc.			1 10					1 10
W. Bingham & Co.	Hardware			75	13 00	4 01			17 76
Strong, Cobb & Co.	Lead, Oil, etc.			4 49	18 10				22 59
Meriam & Morgan	Carbon Oil				6 82				6 82
J. Turton	Painting				2 00				2 00
G. H. Barstow	Fire Clay				3 45				3 45

## ABSTRACT OF EXPENDITURES FOR FEBRUARY, 1878—CONTINUED.

BILLS RENDERED BY.	FOR.	Pipe Ex- tension.	General Repairs.	Office and Gen. Expens's.	Engine House Expens's.	Engine House Repairs.	Water Meters.	Interest.	Total.
Rhodes & Co.	Coal.				\$ 942 96.				\$ 942 96
Edwards, Townsend & Co.	Brooms.				2 50				2 50
People's Gas Light Co.	Gas.				18 90				18 90
Globe Iron Works.	Blacksmithing.					\$ 2 94			2 94
Gibson, Roberts & Price.	Plg Lead.					17 51			17 51
Bell, Cartwright & Co.	Lumber.					20 36			20 36
W. G. La Pelly	Rep. Cistern at Eng. House.					21 25			21 25
J. Stovering & Co.	Blacksmithing.	16 14							16 14
Totals.		1 20	\$ 322 50	\$ 1,736 37	\$ 2,223 06	\$ 126 12			\$4,409 25

ABSTRACT OF EXPENDITURES FOR MARCH, 1878.

BILLS RENDERED BY	FOR.	General Repairs.	Office and Gen. Expens's	Engine House Repairs	Water Meters.	Interest.	Con-struction	Total.
Pay Rolls.....	Labor.....	\$ 385 67						\$ 385 67
" .....	" .....		\$1,617 42					1,617 42
" .....	" .....			\$1,229 16				1,229 16
Lord, Bowler & Co.....	Valves.....	61 56						61 56
Cleveland Cement Pipe Co....	Cement .....	9 50						9 50
Leader Printing Co.....	Stationery.....		38 50					38 50
Robison, Savage & Co.....	Meter Book.....		10 28					10 28
Purdy McNeill.....	Lumber.....		3 82					3 82
L. Richardson.....	Small Desk.....		3 50					3 50
F. & H. Born.....	Pump.....		2 50					2 50
Cleveland Gas Light Co.....	Gas.....		5 40					5 40
E. Cushing.....	Office Rent.....		275 00					275 00
Worswick Manufacturing Co....	Fittings.....		5 58					5 58
W. Bingham & Co.....	Hardware.....		8 97	25 46				34 43
Edwards, Townsend & Co....	Brooms .....			2 75				2 75
R. W. Abram.....	Tallow .....			29 82				29 82

## ABSTRACT OF EXPENDITURES FOR MARCH, 1878—CONTINUED.

BILLS RENDERED BY.	FOR	General Repairs.	Office and Gen. Expens's Repairs.	Engine House Repairs.	Water Meters.	Interest.	Construction.	Total.
Strong, Cobb & Co.....	Oil.....		\$ 1 34					\$ 1 34
K. Hartman.....	Lamp Chimneys.....		1 50					1 50
H. R. Worthington.....	Water Meters.....				\$ 384 44			384 44
Jas. Farnan.....	Brass Cock.....			5 00				5 00
American Lubricating Oil Co.....	Cyl. Oil.....			29 40				29 40
Rhodes & Co.....	Coal.....			824 03				824 03
H. R. Worthington.....	Final paym't for pump. eng.					\$1,823 50	\$7,500 00	9,423 50
Total .....		\$ 436 73	\$ 1,970 97	\$ 2,148 46	\$ 384 44	\$1,823 50	\$7,500 00	\$14,364 07

ABSTRACT OF EXPENDITURES FOR APRIL, 1878.

BILLS RENDERED BY	FOR	Pipe Ex- tension.	General Repairs.	Office and Gen. Expens's	Engine House Repairs.	Water Meters.	Con- struction	Total.
Pay Roll	Labor	\$ 547 58	\$705 98	\$1,576 28	\$1,226 42			\$4,056 24
Lake Shore Foundry	Pipe and Castings	2,414 63						2,414 63
Lord, Bowler & Co.	Valves	173 00						173 00
Henry Steigmeier	Packing and Twine	85 20	13 47					98 67
John Warner	Coal	3 90						3 90
Fred. Hempy	Wood Plugs	4 10						4 10
Gibson & Price	Pig Lead	171 24						171 24
R. D. Wood & Co	Fire Hydrants	444 00						444 00
Stovering & Co	Blacksmithing		36 50					36 50
Cleve. Ship Chandlery Co	Duck Cloth		1 25					1 25
K. Hartman	Repairing Lamp		2 00					2 00
Thos Manning	Repair Work		32 40					32 40
Worswick Manufac'ing Co	Pipe Fittings			24 29				24 29
Leader Printing Co	Advertising	8 00		3 50				11 50
Herald Publishing Co	"			6 25				6 25
Plain Dealer Publishing Co	"			5 00				5 00
Wachter am Erie Pub. Co	"			6 00				6 00

ABSTRACT OF EXPENDITURES FOR APRIL, 1878—CONTINUED.

BILLS RENDERED BY	FOR	Pipe Ex- tension.	General Repairs.	Office and Gen. Expens's	Engine House Repairs.	Water Meters.	Con- struction	Total.
Robison, Savage & Co..	Blank Book.....			\$ 2 36				\$ 2 36
Short & Forman.....	Stationery .....			58 55				58 55
M. B. Sturtevant .....	Horse and Wagon.....			10 00				10 00
E. Henderson.....	Plumbing .....			1 45				1 45
W. S. Wight .....	Carpenter Work.....			80 73				80 73
Sterling & Co.....	Relaying Carpets. ....			4 40				4 40
Strong, Cobb & Co.....	White Lead, &c.....			3 10				3 10
P. Ryan.....	Hauling Meters .....			2 00				2 00
Cleveland Gas Light Co.....	Gas, &c.....	\$8 00		7 05				13 05
R. W. Abram .....	Tallow.....				\$ 23 34			23 34
Edwards, Townsend & Co.....	Brooms.....				2 50			2 50
Cleveland Rubber Co.....	Rubber Hose.....				3 10			3 10
Rhodes & Co.....	Coal .....				866 42			866 42
People's Gas Light Co .....	Gas.....				31 68			31 68
Globe Iron Works.....	Blacksmithing.....					\$10 32		10 32
H. R. Worthington.....	Water Meters.....					\$132 07		132 07
M. A. Wilhelmy.....	Trees and Shrubs.....						\$43 50	43 50

ABSTRACT OF EXPENDITURES FOR APRIL, 1878 - CONTINUED.

BILLS RENDERED BY	FOR	Pipe Ex-		Office and Gen. House Expens's	Engine House Repairs.	Water Meters.	Con-struction	Total.
		ten- sion.	General Repairs.					
Jas. Rudge.....	Furnish'g & Plant'g Trees.	.....	.....	.....	.....	.....	\$117 00	\$ 117 00
M. Fielding.....	Relaying Pavement.....	.....	\$9 16	.....	.....	.....	.....	9 16
Robert Holmer .....	Blacksmithing.....	.....	4 00	\$14 75	.....	.....	.....	18 75
H. W. Luetkneyer .....	Lawn Mower .....	.....	.....	22 00	.....	.....	.....	22 00
Total..	.....	\$3,858 65	\$404 76	\$1,827 98	\$2,153 46	\$33 47	\$160 50	\$8,999 63

ABSTRACT OF EXPENDITURES FOR MAY, 1878.

BILLS RENDERED BY.	FOR.	Pipe Ex- tension.	General Repairs.	Office and Gen. Expens's	Engine House Repairs.	Water Meters.	Crib Super- st'cture.	Total.
Pay Rolls .....	Labor .....	\$ 746 23	\$ 346 00	\$1,482 17	\$1,150 00	.....	.....	\$ 3,724 49
Lake Shore Foundry.....	Pipe and Castings.....	3,374 36	.....	.....	.....	.....	.....	3,374 36
Lord, Bowler & Co.....	Valves .....	377 50	.....	.....	.....	.....	.....	377 50
City of Cleveland.....	Relaying Pavement.....	382 36	.....	.....	.....	.....	.....	382 36
Gibson, Roberts & Price.....	Pig Lead.....	121 40	.....	.....	.....	.....	.....	121 40
Henry Steigmeier.....	Hemp Packing.....	31 32	.....	.....	.....	.....	.....	31 32
Upson & Walton.....	Capstan Bars, &c.....	96	80	.....	.....	.....	.....	1 78
A. F. & H. Streater.....	Pig Lead.....	101 96	.....	.....	.....	.....	.....	101 96
Jno. Wagner.....	Coal .....	2 15	.....	.....	.....	.....	.....	2 15
Strong, Cobb & Co.....	Paints, Oils, etc.....	.....	55 85	.....	\$ 5 00	.....	.....	61 45
Geo. M. Smith .....	Stone Work at Reservoir.....	.....	56 70	.....	.....	.....	.....	56 70
Thos. Manning.....	Blacksmithing.....	.....	43 01	.....	.....	.....	.....	43 01
Stovering & Co.....	" .....	.....	19 51	.....	.....	.....	.....	19 51
E. Henderson.....	Plumbing.....	.....	7 90	13 80	.....	.....	.....	21 79
M. Fielding .....	Relaying Pavement.....	.....	7 29	.....	.....	.....	.....	7 29
W. Kaufman.....	Advertising Water Rents.....	.....	.....	4 00	.....	.....	.....	4 00
Cleveland Gas Light Co .....	Gas.....	.....	.....	3 00	.....	.....	.....	3 00
Robison, Savage & Co.....	Record Books .....	.....	.....	11 40	.....	.....	.....	11 40
W. Bingham & Co.....	Hardware.....	.....	.....	19 21	.....	.....	.....	19 21



ABSTRACT OF EXPENDITURES FOR MAY, 1878—CONTINUED.

BILLS RENDERED BY.	FOR.	Pipe Ex- tension.	General Repairs.	Office and Gen. Expens's	Engine House Expens's	Engine House Repairs.	Water Meters.	Crib Super- st'cture.	Total.
M. B. Sturtevant.....	Horse and Wagon, use of.			\$ 12 00					\$ 12 00
Geo. A. Stanley.....	Lard Oil.....				\$ 26 10				26 10
People's Gas Light Co.....	Gas.....				59 50				59 50
Rhodes & Co.....	Coal.....				725 88				725 88
Edwards, Townsend & Co ..	Brooms and Soap.....				8 25				8 25
Globe Iron Works.....	Grates, etc.....					\$ 49 72			49 72
A. A. McDonell.....	Estimate.....							\$6,730 83	6,730 83
H. R. Worthington.....	Water Meters.....						\$420 23		420 23
Union Water Meter Co.....	Repairing Meters.....		\$ 15 00						15 00
People's Gas Light Co.....	Resetting Posts.....					12 84			12 84
Totals.....		\$5,148 26	\$552 15	\$1,545 67	\$1,989 73	\$68 16	\$420 23	\$6,730 83	\$16,444 08

## ABSTRACT OF EXPENDITURES FOR JUNE, 1878.

BILLS RENDERED BY	FOR	Pipe Ex- tension.	General Repairs.	Office and Gen. Expens's	Engine House Expens's	Engine House Repairs.	Water Meters.	Crib Super- st'cture.	Total.
Pay Rolls.....	For Labor.....	\$ 712 56	\$ 284 28	\$1,451 64	\$1,158 50				\$3,606 98
Lake Shore Foundry.....	Pipe and Castings.....	3,458 64							3,458 64
J. Stovering & Co.....	Blacksmithing.....	39 91	14 35						54 26
A. F. & H. Strater.....	Pig Lead.....	148 68							148 68
Gibson & Price.....	" .....	80 58							80 58
Lord, Bowler & Co.....	Valves.....	317 72	21 50						339 22
R. D. Wood & Co. ....	Fire Hydrants.....	444 00							444 00
Fred. Hempy.....	Wood Plugs.....	10 90							10 90
John Wagner.....	Coal.....	4 30							4 30
W. G. Le Pelley.....	Carpenter Work.....		80 44						80 44
Strong, Cobb & Co.....	Oil, &c.....		60 90						60 90
Thos. Manning.....	Blacksmithing.....		21 95						21 95
Roehl & Koehn.....	Brick for Reservoir.....		42 00						42 00
K. Hartman.....	Repair of Lamp.....		1 50						1 50
Cleveland Gas Light Co.....	Gas.....			2 40					2 40
Worswick Manufact'g Co.....	Pipe Fittings.....			53 30	35				53 74
E. Cushing.....	Rent.....			275 00					275 00

ABSTRACT OF EXPENDITURES FOR JUNE, 1878--CONTINUED.

BILLS RENDERED BY	FOR	Pipe Ex- tension.	General Repairs.	Office and Gen. Expens's	Engine House Expens's	Engine House Repairs.	Water Meters.	Crib Super- st'cture.	Total.
S. C. Brooks & Co.....	Meter Boxes.....	.....	.....	\$ 21 40	.....	.....	.....	.....	\$ 21 40
M. B. Sturtevant.....	Horse Hire.....	.....	.....	14 00	.....	.....	.....	.....	14 00
John W. Nixon.....	Plumbing.....	.....	.....	4 65	.....	.....	.....	.....	4 65
Leader Printing Co.....	Printing Notices.....	.....	.....	6 00	.....	.....	.....	.....	6 00
F. & H. Born.....	Flue Stop.....	.....	.....	35	.....	.....	.....	.....	35
Globe Iron Works.....	Iron Works.....	.....	.....	.....	\$ 1 08	.....	.....	.....	1 08
W. Bingham & Co.....	Hardware.....	.....	.....	16 77	.....	.....	.....	.....	16 77
Short & Forman.....	Stationery.....	.....	.....	8 20	.....	.....	.....	.....	8 20
Peoples' Gas Light Co...	Gas.....	.....	.....	.....	15 40	.....	.....	.....	15 40
W. H. Parkin.....	Recutting Files.....	.....	.....	.....	5 97	.....	.....	.....	5 97
A. A. McDonell.....	Estimate.....	.....	.....	.....	.....	.....	.....	\$3,595 51	3,595 51
H. R. Worthington.....	Water Meters.....	.....	.....	.....	.....	.....	\$101 07	.....	101 07
Robert Busher.....	Dam. to Horse and Carriage.....	.....	.....	71 00	.....	.....	.....	.....	71 00
Total.....	.....	\$5,213 25	\$ 1,528 92	\$1,924 80	\$1,181 30	.....	\$101 07	\$3,595 51	\$12,542 85

## ABSTRACT OF EXPENDITURES FOR JULY, 1878.

BILLS RENDERED BY	FOR	Pipe Ex- tension.	General Repairs.	Office and Gen. Expens's	Engine House Expens's	Engine House Repairs.	Water Meters.	Crib Super- st'cture.	Total.
Pay Rolls.....	Labor.....	\$ 580 87	\$ 426 83	\$1,415 98	\$1,158 53	\$ 41 60	.....	\$ 110 53	\$7,344 32
Lake Shore Foundry.....	Pipe and Castings .....	3,025 08	.....	.....	.....	.....	.....	.....	3,025 08
Lord, Bowler & Co.....	Valves .....	190 50	10 50	.....	.....	.....	.....	.....	201 00
Gibson & Price.....	Pig Lead.....	76 49	.....	.....	.....	.....	.....	.....	76 49
R. D. Wood & Co .....	Fire Hydrants.....	444 00	.....	.....	.....	.....	.....	.....	444 00
John Wagner.....	Coal.....	4 30	.....	.....	.....	.....	.....	.....	4 30
J. Stovering & Co.....	Blacksmithing.....	.....	25 04	58	.....	.....	.....	.....	25 62
Thos. Manning.....	" .....	.....	11 68	6 00	.....	.....	.....	.....	17 68
H. Steigmeier.....	Packing.....	26 21	10 58	.....	.....	.....	.....	.....	36 79
Upson, Walton & Co.....	Duck.....	.....	1 10	.....	.....	.....	.....	.....	1 10
W. G. Le Pelley.....	Carpenter Work.....	.....	14 30	.....	.....	.....	.....	.....	14 30
Geo. Cooper.....	Duck.....	.....	2 50	.....	.....	.....	.....	.....	2 50
Gardner, Clark & York.....	Cement.....	.....	1 50	.....	.....	.....	.....	.....	1 50
Strong, Cobb & Co.....	Oils, Lead, etc.....	.....	28 90	1 42	.....	\$ 5 33	.....	.....	35 65
W. P. Southworth & Co.....	Palls.....	.....	80	.....	.....	.....	.....	.....	80
Worswick Manufacturing Co	Fittings.....	.....	.....	23 08	.....	.....	.....	.....	23 08
M. B. Sturtevant.....	Horse and Wagon Hire.....	.....	.....	10 00	.....	.....	.....	.....	10 00

**BOARD OF TRUSTEES OF WATER WORKS.**

# HILLS RENDERED BY

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ABSTRACT OF EXPENDITURES FOR JULY, 1878—CONTINUED.

BILLS RENDERED BY	FOR	Pipe Ex- tension.	General Repairs.	Office and Gen. Expens's	Engine House Expens's	Engine House Repairs.	Water Meters.	Crib Super- st'cture.	Total.
R. T. Lyon.....	Cement.....	.....	.....	.....	.....	.....	.....	\$ 91 00	\$ 91 00
A. T. Van Tassel.....	Hardware.....	.....	.....	.....	\$ 6 32	.....	.....	.....	6 32
A. A. McDonell.....	Estimate.....	.....	.....	.....	.....	.....	.....	1,729 75	1,729 75
Rhodes & Co.....	Coal.....	.....	.....	.....	1,618 93	.....	.....	.....	1,618 93
C. L. Earl.....	Water Rent Bills.....	.....	.....	\$ 19 80	.....	.....	.....	.....	19 80
L. Reif.....	Labor.....	.....	.....	.....	.....	\$ 6 00	.....	.....	6 00
Totals.....	.....	\$4,417 43	\$ 543 73	\$1,591 21	\$3,075 92	\$59 03	\$ 310 05	\$2,027 53	\$12,024 90

ABSTRACT OF EXPENDITURES FOR AUGUST, 1878.

BILLS RENDERED BY	FOR	Pipe Ex- tension.	Gen'l Rep'rs.	Office and Gen. Expens's	Engine House Expens's	Engine House Rep'rs.	Con- struction	Crib. Super- struct're	New Boilers.	Crib Protec'n	Total.
Pay Rolls .....	Labor .....	\$ 681 94	\$343 90	\$1,486 88	\$1,212 59	\$50 90		\$ 811 62	\$ 61 50		\$ 4,848 82
Lake Shore Foundry ..	Pipe and Castings.	1,718 28									1,718 28
Lord, Bowler & Co .....	Valves .....	468 50	33 12								499 62
Thos. Manning, Jr. ....	Blacksmithing ..	8 02	11 16	50							19 68
Gibson & Price .....	Pig Lead .....	114 47	39 06								153 53
John Wagner .....	Coal .....	8 30									8 30
R. D. Wood & Co .....	Fire Hydrants ..	444 00									444 00
Theo. Simmons .....	Cement .....		4 50								4 50
K. Hartman .....	Repairing Lamp ..		65								65
Upson, Walton & Co. ....	Capstan Bars .....		70		1 98						2 68
Worswick M'fg. Co. ....	Pipe Fittings .....			4 69							4 69
R. T. Lyon .....	Cement, &c. ....			4 75							11 25
Chas. Dewstoe .....	Plumbing .....			11 62							11 62
Vincent, Sturm & Co. .	Repairing Chairs..			1 60							1 60
J. B. Savage .....	Books .....			48 70							48 70
J. J. Graves. ....	Plumbing .....			46 45	25 86						72 31
W. Bingham .....	Hardware .....		64	21 30				156 31			178 25

## ABSTRACT OF EXPENDITURES FOR AUGUST, 1878—CONTINUED.

BILLS RENDERED BY	FOR	Pipe Ex- tension.	Gen'l Rep'rs.	Office and Gen. Expens's	Engine House Expens's	Engine House Rep'rs.	Con- struction	Crib Super- struct're	New Boilers.	Crib Protec'n.	Total.
Chas. Crabb.....	Exam'n of Horse.			\$ 2 00							\$ 2 00
Cleveland Gas Co.....	Gas.....			1 95							1 95
B. P. Bower.....	Plumbing			38 92							38 92
Edwards & Townsend	Brooms				\$ 2 00						2 00
J. Simmons.....	Labor				9 00						9 00
M. T. Thompson.....	Coal.				116 88						116 88
Meriam & Morgan.....	Oil				7 02						7 02
Cleveland Rubber Co..	Belting.				1 14						1 14
Globe Iron Works....	Blacksmithing.	\$ 6 63				\$ 6 27					12 90
Geo. A. Stanley.....	Oil				27 90						27 90
Jas. Farnan.....	Pump Plunger					14 75					14 75
Thos. Sullivan.....	Paint'g Wall, E. H.						\$ 310 35				301 35
Cleveland Cabinet Co..	Walnut Lumber						10 00				10 00
John Douglass.....	Mason Labor						28 10				28 10
Roehl & Koehn.....	Brick						6 00				6 00
Plain Dealer Pub. Co..	Advertising.							\$ 20 00			20 00
A. A. McDonell .....	Estimate							1,916 75			1,916 75
A. A. McDonell .....	Labor and Mater'l							84 02		\$ 155 30	239 32



ABSTRACT OF EXPENDITURES FOR AUGUST, 1878—CONTINUED.

BILLS RENDERED BY	FOR	Pipe Ex- tension.	Gen'l Rep'r's.	Office and Gen. Expens's	Engine House Expens's	Engine House Rep'r's.	Con- struction	Crib Super- struct're	New Boilers.	Crib Protec'n	Total.
H. C. Currier .....	Stone. ....									\$ 534 15	\$ 534 15
I. Sturtevant. ....	Lumber. ....									7 54	7 54
Cleve. S. M. Lumb'r Co. ....	" .....									235 42	235 42
Lake Erie Iron Co .....	Iron Bolts. ....									60 69	60 69
J. C. Tears .....	Stone. ....									286 00	286 00
Ward & Jackson .....	Blacksmithing. ....									456 57	456 57
Kelly Isl'd Lime Co .....	Stone. ....									240 00	240 00
Peoples' Gas Light Co. ....	Gas. ....				\$ 18 90						18 90
Strong, Cobb & Co. ....	Oils, etc. ....		\$ 6 41								6 41
Leader Printing Co. ....	Advertising. ....				10 67						10 67
J. Herig & Son. ....	Office Desk .....			\$ 100 00							100 00
M. B. Sturtevant .....	Use H'rse & Wag'n .....			10 00							10 00
P. Smith .....	Use of Lighter .....									152 08	152 08
P. Smith .....	Use of Tugs. ....									144 50	144 50
Cleve. Ste'm Boll'r Wks .....	Estimate. ....								3,107 23		3,107 22
Total .....		\$3,448 14	\$440 14	\$1,776 94	\$1,433 83	\$71 92	\$349 95	\$2,988 70	\$3,168 72	\$2,253 25	\$15,930 59



ABSTRACT OF EXPENDITURES FOR SEPTEMBER, 1878—CONTINUED.

BILLS RENDERED BY	FOR	Pipe Extension.	General Repairs.	Office and Gen'l Expenses.	Engine House Expenses.	Engine House Repairs.	Water Meters.	Construction.	Crib Super-structure.	New Boilers.	Crib Protection.	Crib Repairs.	Total.
Short & Forman.....	Stationery.....			3 00									3 00
W. H. Luetkemeyer.....	Rep'g Lawn Mower.....			3 40									3 40
J. H. Fleharty.....	Wax Seal Stamp.....			2 50									2 50
J. B. Savage .....	Books.....			9 44									9 44
Forest City Packing Co..	Packing.....				10 12								10 12
Edwards, Townsend & Co	Brooms .....				1 00								1 00
J. Simmons.....	Labor .....				45 00								45 00
W. Gaul.....	Lake Sand.....				2 50					15 00			17 50
People's Gas Light Co. .	Gas .....				18 45								18 45
M. T. Thompson.....	Coal.....				588 18								588 18
Globe Iron Works.....	Blacksmithing.....								147 90				147 90
Thatcher & Thompson .	Iron Work.....					6 82							6 82
Ferris & Garfield.....	Stone.....										1,040 18		1,040 18
H. C. Currier.....	" .....										879 00		879 00

## ABSTRACT OF EXPENDITURES FOR SEPTEMBER, 1878—CONTINUED.

BILLS RENDERED BY	FOR	Pipe Extension.	General Repairs	Office and Gen'l Expenses.	Engine House Expenses.	Engine House Repairs.	Water Meters.	Construction.	Crib Superstructure	New Boilers.	Crib Protection.	Crib Repairs.	Total.
J. Geisendorfer.	Stone.										525 00		\$ 525 00
C. Bennett	Use of Raft.								9 75				9 75
Samuel Law	Boat Hire.											1 75	1 75
Cleveland Lumber Co.	Lumber.											34 62	34 62
Lake Erie Iron Co.	Iron.											35 30	35 30
Bell, Cartwright & Co.	Lumber.											6 44	6 44
Warner & Driscoll	Tugs and Towing.											13 50	13 50
Clev. Ship Chandler Co.	Tar.											80	80
Pat Smith.	Stone, etc.											545 48	4,416 63
J. W. Scott.	Carpenter Work.								33 80	2,549 14	3,871 15		33 80
Clev. Steam Boiler Co.	Estimate.												2,549 14
R. T. Lyon.	Cement.									15 50			15 50
Kelley Island Lime Co.	Lime.									7 00			7 00
Martin Faulhaber.	Carpenter Work.							160 44					160 44

ABSTRACT OF EXPENDITURES FOR SEPTEMBER, 1878—CONTINUED.

BILLS RENDERED BY	FOR	Pipe Extension.	General Repairs.	Office and Gen- eral Expenses.	Engine House Expenses.	Engine House Repairs.	Water Meters.	Construction.	Crib Superstructure.	New Boilers.	Crib Protection.	Crib Repairs.	Total.
J. Turton.....	Painting.....							52 91					52 91
H. R. Worthington.....	Water Meters.....						154 05						154 05
Cuy'gra Steam Furn'ce Co	Blacksmithing.....					427 80							427 80
M. Driscoll.....	Hulk Dreadnaught.....											200 00	200 00
D. S. Bailey.....	No. 2 Patent Elevator.....			45 00									45 00
A. A. McDonell.....	Estimate.....								549 13				549 13
Total.....		4,227 31	514 25	1,822 42	1,823 37	434 62	154 05	213 35	1,259 79	2,999 41	6,315 33	1,229 26	20,983 16

## ABSTRACT OF EXPENDITURES FOR OCTOBER, 1878.

BILLS RENDERED BY	FOR	Pipe Exten- sion.	Gen'l Rep'rs.	Office and Gen. Expens's	Engine House Expens's	Engine House Repairs.	Crib Sup'ry.	New Boilers.	Crib Protec- tion.	Crib Repairs.	Total.
Pay Rolls .....	Labor .....	\$205 05	\$387 96	\$1,544 23	\$1,158 82			\$ 787 07		\$1,540 04	\$5,623 77
R. D. Wood & Co. ....	Fire Hydrants .....	370 00									370 00
Lake Shore Foundry .....	Pipe and Castings .....	51 72	92 71								144 43
Gibson & Price .....	Pig Lead .....	120 56									120 56
Lord, Bowler & Co. ....	Valves ..	63 50	10 50								74 00
Henry Stelgmeier .....	Packing and Twine .....	7 38	6 75								14 13
J. Stovering & Co. ....	Blacksmithing .....	3 44	5 86	6 75							16 05
Thos. Manning .....	Blacksmithing .....		13 86	60							14 46
Chas. C. Dewstoe .....	Plumbing .....		10 49								10 49
K. Hartman .....	Lamps .....		10 15								10 15
Cleve. Cement Pipe Co. .	Cement .....		8 90								8 90
W. P. Southworth .....	Wood Pails .....		70								70
E. W. Ensign, Estimate. .	Lumber .....			24 69						441 25	465 94
Russell Lime Co. ....	Lime Stone .....							17 00		98 00	115 00
Russell Lime Co. ....	" ..									22 50	22 50
Kelly Island Lime Co. .	" ..							7 00		161 25	168 25

**BOARD OF TRUSTEES OF WATER WORKS.**

289

ABSTRACT OF EXPENDITURES FOR OCTOBER, 1878—(CONTINUED.)

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## ABSTRACT OF EXPENDITURES FOR OCTOBER, 1878.—CONTINUED.

BILLS RENDERED BY	FOR	Pipe Exten- sion.	Gen'l Rep'r.	Office and Gen. Expens's	Engine House Expens's	Engine House Repairs.	Crib Structure.	New Boilers.	Crib Protec- tion.	Crib Rep'rs	Total.
Thos. Willson & Co.	Sub-Marine Diving									\$2,340 00	\$2,340 00
Cleve'd Steam Boiler Co.	Estimate							\$3,550 59			3,550 89
Worswick Manuf'g Co.	Pipe Fittings			\$ 27 04	\$ 8 00						35 04
Leader Printing Co.	Reports, &c.			297 80							297 80
Wm. S. Wight	Meter Boxes			29 40							29 40
Cleveland Gas Light Co.	Gas for Offices			4 95							4 95
Waechter am Erle	Advertising			6 00							6 00
M. Driscoll	Blocks, &c.			10 00							10 00
Peter Gerlach	Saw			2 00							2 00
V. C. Taylor	Services as Agent			10 00							10 00
Vincent, Sturin & Bars'w	Office Chair			7 50							7 50
P. Ryan	Cartage			3 75							3 75
H. W. Luetkemeyer	Nipper Blades			1 00							1 00
Rhodes & Co.	Coal for June, 1878				912 33						912 33
J. J. Parsons	Iron Boxes				28 00						28 00
J. Ingraham	Cotton Waste				48 93						48 93



FROM	FOR	Pipe Exten- sion.	Gen'l Rep'rs.	Office and Gen. Expens's	Engine House Expens's	Engine House Repairs	Crib Sup'r. Structure	New Boilers.	Crib Protec- tion.	Crib Repairs.	Total.
Upson, Walton & Co.	Cotton Duck.				\$ 42						\$ 42
J. Simmons.	Labor				45 00						45 00
Edwards, Townsend & Co	Brooms				2 75						2 75
E. H. Kellogg	Cylinder Oil				38 40						38 40
People's Gas Light Co.	Gas.				19 80						19 80
Cleve'd Steam Gauge Co.	Repair of Gauge.					\$ 1 50					1 50
Cleveland, Brown & Co.	Iron Beams.							\$ 252 13			252 13
G. H. Barstow	Fire Clay.							23 00			23 00
Forest City Stone Co.	Stone.							89 22			89 22
Cuyahoga S. F. Co.	Valve Work							95 00			95 00
Bourn & Knowles	Copper Work.							2 00			2 00
Van Tuyl Facing Co	Charcoal							12 00			12 00
R. T. Lyon.	Cement			\$ 4 60				43 40			48 00
Globe Iron Works.	Blacksmithing.					16 44		172 12			188 56
Geo. S. Paine	Plumbing			1 63			\$ 1 50				3 13
Robert Greenhalgh	Towing, etc.									\$1,047 00	1,047 00

ABSTRACT OF EXPENDITURES FOR OCTOBER, 1878—CONTINUED.

BILLS RENDERED BY	FOR	Pipe Exten- sion.	Gen'l Rep'rs.	Office and Gen. Expens's	Engine House Expens's	Engine House Repairs.	Crib Sup'r- structure.	New Boilers.	Crib Protec- tion.	Crib Repairs.	Total.
Strong, Cobb & Co.....	Lead, etc.....	.....	\$ 2 00	.....	.....	.....	.....	\$ 16 70	.....	.....	\$ 18 70
E. B. Nicklaus.....	Indicator.....	.....	.....	\$ 30 00	.....	.....	.....	.....	.....	.....	30 00
M. T. Thompson & Co.....	Coal.....	.....	.....	.....	\$ 573 24	.....	.....	.....	.....	.....	573 24
P. Smith.....	.....	.....	.....	.....	.....	.....	.....	.....	\$901 44	\$ 269 63	1,171 07
Total.....	.....	\$821 65	\$563 88	\$2,012 50	\$2,896 79	\$17 94	\$1 50	\$5,067 53	\$901 44	\$7,082 54	\$19,315 77

ABSTRACT OF EXPENDITURES FOR NOVEMBER, 1878.

BILLS RENDERED BY	FOR	Pipe Extension.	General Repairs.	Office and Gen. Expens's	Engine House Expens's	Eng. House Repairs.	Water Meters	Construction	New Boilers.	Crib Protection	Crib Repairs.	Total.
Pay Rolls.....	Labor.....		288 33	1,584 01	1,161 50				439 64		1,285 60	4,769 04
Cleveland Gas Light Co.....	Gas and Fire-clay.....	6 00		10 50								16 50
P. Ryan.....	Cartage.....	1 50										1 50
J. Stovering & Co.....	Blacksmithing.....		27 96									27 96
M. B. Sturtevant.....	Horse and Wagon.....		14 00									14 00
Peck & Bemis.....	Gaskets.....		1 50									1 50
Thos. Manning.....	Blacksmithing.....		50 25									50 25
R. T. Lyon.....	Cement.....		3 30									3 30
J. B. Savage.....	Book of Record.....			12 20								12 20
E. J. Chubb.....	Signs.....			18 00								18 00
J. Graves.....	Plumbing.....			9 50								9 50
H. R. Worthington.....	Water Meters.....						227 65					227 65
Plain Dealer Pub. Co.....	Notice water r'nts.....			5 00								5 00
Herald Pub. Co.....	" ".....			2 40								2 40
J. Wagner.....	Coal for office.....			7 00								7 00
W. S. Wight.....	Meter Boxes.....			32 15								32 15

## ABSTRACT OF EXPENDITURES FOR NOVEMBER, 1878—CONTINUED.

BIUS RENDERED BY	FOR	Pipe Exten- sion.	General Repairs.	Office and Gen. Expens's	Engine House Expens's	Eng. House Repairs.	Water Meters.	Con- struction	New Boilers.	Crib Protec'n	Crib Repairs.	Total.
People's Gas Light Co	Gas.				\$ 22 35							\$ 22 35
M. T. Thompson	Coal				831 37							831 17
J. Sinmons	Labor.				45 00							45 00
K. Hartman	Repairing Lamps.				1 00						\$ 6 35	7 35
Strong, Cobb & Co.	White Lead.				1 69				\$ 24 00			25 69
Geo. A. Stanley	Lard Oil.				27 44							27 44
E. H. Kellogg	Cartage bl. cyl.oil				50							50
Clev. St'm Boiler Works	Estimate.								4,279 54			4,279 54
Geo. H. Barstow	Fire Clay								12 50			12 50
Worswick Manuf'g Co.	Pipe Fittings..			\$ 6 65					96 25			102 90
Ellijah Smith	Moving Boilers.								180 00			180 00
Wm. Bingham & Co.	Hardware.			2 75					16 28		107 14	126 17
Herman Schall	Meals for Labor's.										133 41	133 41
P. Ninth..	Stone, etc									\$ 478 38	30 58	508 96
L'pson, Walton & Co.	Rope, etc.		\$2 95	72 45								75 40
Geo. Breyman	Submarine Div'g.										1,590 00	1,590 00

ABSTRACT OF EXPENDITURES FOR FEBRUARY, 1878—CONTINUED.

HILLS RENDERED BY	FOR	Pipe Fixtures	General Repairs	Office and Gen. Expens's	Engine House Expens's	Eng. House Repairs	Water Meters.	Con- struction	New Boilers.	Crib Protec- tion.	Crib Repairs.	Total.
Rhodes & Co.	Coal for Scow.										\$ 9 63	\$ 9 63
E. W. Ensign, Est.	Timber										90 24	90 24
Summit Mine Coal Co.	Coal for Scow.										10 00	10 00
John Blatt	Blacksmithing.							\$16 07			39 36	39 36
Woods, Perry & Co.	Lumber										33 63	49 70
Globe Iron Works.	Blacksmithing.					2 42			\$ 83 54		587 25	673 21
Jacob Myer	Labor										14 50	14 50
Kelly Island Line Co	Stone and Lime								7 00		207 00	214 00
Robert Greenhalgh	Towing, etc.										873 00	873 00
Andrew Lacour	Blacksmithing.										667 77	667 77
A. T. Van Tassel.	Hardware			22 10	11 90							34 00
Total.		7 50	388 29	\$1,784 71	\$2,102 75	2 42	\$227 65	\$16 07	\$5,138 75	\$478 38	\$5,665 46	\$15,811 96

## ABSTRACT OF EXPENDITURES FOR DECEMBER, 1878.

BILLS RENDERED BY	FOR	Pipe Ex- tension.	General Repairs.	Office and Gen. Expens's	Engine House Expens's	Engine House Repairs.	New Boilers.	Crib Protec'n	Crib Repairs.	Total.
Pay Rolls.....	Labor.....		\$ 380 61	\$1,528 63	\$1,154 50		\$292 85		\$814 76	\$4,171 45
Lake Shore Foundry.....	Pipe and Castings....	\$ 60 00								60 00
Lord, Bowler & Co.....	Valves.....	13 50								13 50
Fred Hempy .....	Wood Plugs.....	1 00								1 10
Worswick M'f'g Co.....	Pipe Fittings .....		29 66		7 19					36 85
Thos. Manning .....	Blacksmithing..		9 34							9 34
J. Stovering & Co.....	Blacksmithing .....		14 65							14 65
Peck & Bemis.....	Rubber Gaskets....		3 75							3 75
Geo. Cooper.....	Duck .....		3 00							3 00
W. Bingham & Co.....	Hardware.....			5 18			14 15		28 45	47 78
E. Cushing.....	Office Rent.....			275 00						275 00
Jno. Wagner.....	Lump Coal.....			7 00						7 00
Short & Foreman.....	Stationery.....			5 70						5 70
Clevel'd Gas Light Co....	Gas.....			11 10						11 10
S. C. Brooks.....	Carpenter Work.....			7 14						7 14
J. B. Savage.....	Binding Books, &c....			6 35						6 35

ABSTRACT OF EXPENDITURES FOR DECEMBER, 1878--CONTINUED.

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## ABSTRACT OF EXPENDITURES FOR DECEMBER, 1878—CONTINUED.

BILLS RENDERED BY	FOR	Pipe Ex- tension.	General Repairs.	Office and Gen. Expens's	Engine House Expens's	Engine House Repairs.	New Boilers.	Crib Prot'ct'n Repairs.	Crib Repairs.	Total.
Rhodes & Co.....	Coal.....								\$ 1 40	\$ 1 40
Bohnert & Blake.....	Use of Blocks.....								1 50	1 50
W. Kaufman.....	Adv. Water Rents.....			\$ 4 00						4 00
P. Smith.....	Use of Derrick.....								28 70	28 70
Globe Iron Works.....	Blacksmithing.....							\$ 973 58		973 58
Robert Roach.....	Kindling Wood.....			3 25						3 25
M. T. Thompson.....	Coal.....				\$ 604 42					604 42
Total.....		\$ 74 69	\$ 441 01	\$ 1,857 35	\$ 1,848 48	\$ 9 77	\$ 2,463 96	\$ 973 58	\$ 1,602 11	\$9,380 95



RECAPITULATION.

Pipe Extension.....	\$ 27,257 58
General Repairs.....	5,878 33
Office and General Expenses.....	21,738 98
Engine House Expenses.....	24,353 06
Engine House Repairs.....	1,057 90
Water Meters.....	1,729 56
Interest.....	1,923 50
Construction.....	8,229 87
Crib Superstructure.....	16,612 86
New Boilers.....	18,838 37
Crib Protection.....	10,920 28
Crib Repairs.....	15,619 37
Total.....	\$154,170 36

# INVENTORY OF MISCELLANEOUS STOCK AND CASTINGS ON HAND AT RESERVOIR, JAN, 1st, 1879.

10 20 inch pipe.	1 3 inch pipe, 6 ft. 10 in. socket.
1 20 inch pipe, 6 feet 8 inches long.	34 feet 3 inch pipe, in pieces.
1 20 inch pipe, 4 feet long.	1 hitching post.
1 20 inch pipe.	1 cyl. valve box.
11 feet of 20 inch pipe, in pieces.	1 6 inch Y.
6 20 inch pipe, 8 feet long.	1 24 inch valve, Bos. Machine Co.
3 20 in. pipe, with sockets, 2 ft. long.	1 24 inch valve, Scowden.
1 36 inch pipe, 10 ft. 6 in. long.	1 8 inch tee.
1 36 inch pipe, 3 ft. 9 in. socket.	1 8 to 4 inch tee.
1 36 inch pipe.	1 10 to 6 inch tee.
6 16 inch pipe.	1 6 inch tee.
1 16 inch pipe, 2 ft. 4 in. long.	1 6 to 4 inch tee, cement.
2 24 inch pipe.	4 4 inch tees, cement.
1 24 inch pipe, 10 ft. long.	1 4 inch tee.
1 24 inch pipe, 10 ft. 6 in. long.	1 12 inch cross.
2 30 inch pipe.	2 8 inch crosses.
1 30 inch pipe, 8 ft. long.	4 6 inch crosses.
1 30 inch pipe, 8 ft. 10 in. long.	4 4 inch crosses, cement.
1 30 inch pipe, 3 ft. socket.	1 4 inch cross.
1 30 inch pipe 3 ft. 8 in. long.	5 16 inch curves.
1 30 inch $\frac{1}{8}$ curve $\frac{1}{2}$ length plain.	1 16 inch curve, 3 ft. long.
1 30 inch pipe, 3 ft. 7 in. socket.	1 30 inch cap.
1 30 inch curve.	1 20 inch cap.
9 10 inch pipe.	1 30 inch clamp.
5 10 inch pipe, 8 ft. long.	3 36 inch clamps.
7 10 in. pipe, from 5 to 8 ft. long.	2 24 inch clamps, new.
35 feet of 8 in. pipe, in pieces.	2 24 inch clamps, old style.
7 6 inch pipe.	4 16 inch socket clamps.
44 feet of 6 in. pipe.	2 24 inch socket clamps.
73 feet of 4 in. pipe.	5 16 inch clamps.

# INVENTORY OF MISCELLANEOUS STOCK AT RESER- VOIR.—(CONTINUED.)

1 24 to 20 inch reducer.	1 steel shovel, 1 snow shovel.
1 30 to 24 inch reducer.	1 broom.
3 12 to 6 inch reducers.	1 garden rake.
1 8 to 6 inch reducer.	2 hay rakes.
1 6 to 4 inch reducer.	1 hay fork.
1 10 to 8 inch reducer.	2 scythes.
1 4 to 3 inch reducer.	2 garden hoes.
3 3 inch elbows.	1 hand saw.
1 6 inch elbow.	1 axe.
2 6 inch $\frac{1}{4}$ bends.	1 lawn mower.
2 8 inch $\frac{1}{4}$ bends.	2 crow bars.
2 20 inch sleeves.	1 sickle.
2 16 inch sleeves.	1 claw hammer.
2 10 inch sleeves.	2 paint brushes.
1 4 inch sleeve.	1 copper oil can.
1 4 inch reversed curve.	1 whet stone.
2 30 inch sleeves.	20 pounds white lead.
1 grindstone.	$\frac{1}{2}$ gal. linseed oil.
2 furnaces.	1 monkey wrench.
2 lead pots.	2 6 inch wrenches.
2 ladles.	1 20 inch lever wrench.
2 lamp posts and lamps.	1 30 inch wrench.
1 top and bottom frame to valve box.	1 tool box.
20 pounds packing.	20 picks.
51 feet of 2 $\frac{1}{2}$ inch wrought iron pipe.	600 pounds lead,
19 pine scantling, 16 ft. 6x4 in.	$\frac{1}{2}$ gal. oil can.
$\frac{1}{2}$ barrel of salt.	2 capstan bars.
50 feet $\frac{1}{4}$ hose.	1 set of calking tools.
1 empty oil barrel.	7 cold chisels.
1 wheel harrow.	2 cold sets.

# INVENTORY OF MISCELLANEOUS STOCK AT RESERVOIR.—CONTINUED.

1 sledge.	2 calking hammers.
1 pair callipers.	2 water pails,
1 hydrant wrench.	1 monkey wrench.
1 hand saw.	1 axe.
1 tape line.	1 water dipper.

## MISCELLANEOUS STOCK OF CASTINGS, TIMBER, &c., ON HAND AT ENGINE HOUSE GROUNDS.

3 timbers 10x14x28, hemlock.	1 24 inch pipe 9 ft. long.
1 timber 10x14x32, hemlock.	2 24 inch pipe 2 ft. long.
2 timbers 10x10x15, hemlock.	1 30 inch pipe 3 ft. 10 in. long.
1 timber 10x10x11, hemlock.	1 30 in curve 5 ft. long.
1 timber 10x14x17, hemlock.	1 30 inch to 24 inch reducer.
1 timber 10x14x23, hemlock.	3 36 inch sleeves.
1 timber 10x14x19, hemlock.	1 36 inch sleeve, irregular.
3 timbers 10x14x22, hemlock.	1 30 inch sleeve.
1 timber 10x14x14, hemlock.	1 24 inch sleeve.
2 timbers 10x14x27, hemlock.	26 inch sewer pipe 18 in. diameter 2 feet long.
1 timber 12x12x24, pine.	2 sewer pipe 9 inch curves.
2 timbers 12x6x16-3, pine.	1 12 inch sewer pipe.
9 timbers 24x6x12, oak flitch.	1 6 inch sewer pipe.
1 timber 18x6x8 oak flitch.	1 30 inch check valve.
1 timber 18x6x26, oak flitch.	1 small hose reel.
281 Drift bolts, 1x25.	100 feet 3 ply $\frac{1}{4}$ hose.
3 large derricks.	1 boat belonging to crib.
1 wro't iron pipe 24 in., 20 ft. long.	1 steel garden rake.
1 wro't iron pipe 24 in., 40 ft. long.	4 wheel barrows.
1 wro't iron pipe 24 in., 26 ft. long.	1 lawn roller.
2 36 inch pipes.	1 lawn sickle.
1 30 inch pipe.	
1 24 inch pipe.	

INVENTORY OF MISCELLANEOUS CASTINGS IN  
STOCK AT STORE ROOM BACK OF TAYLOR &  
KILPATRICK'S STORE.

1 12 inch pipe, 3 ft. 7 in., plain.	1 10 to 8 inch cross.
1 12 inch pipe, 2 socket.	1 10 to 6 inch reducer.
1 12 inch pipe, 2-6 socket,	1 12 to 6 inch reducer.
2 12 inch pipes.	1 12 to 8 inch reducer.
1 10 inch pipe.	1 12 to 10 inch reducer.
1 10 inch pipe, 10 ft. 9 in., plain.	13 8 to 6 inch reducers.
4 10 inch pipes, from 7 to 8 ft.	1 10 to 4 inch reducer.
4 8 inch pipes.	1 8 to 4 inch reducer.
7 8 inch pipes, from 3 to 10 ft. long.	2 4 to 3 inch reducers.
1 6 inch pipe.	1 6 inch elbow.
7 6 inch pipes, from 4 to 11 ft, long	2 4 inch elbows.
45 ft. of 6 in. pipe in smaller pieces.	1 3 inch elbow.
150 ft. of 4 in. pipe in pieces 3 to 6 ft.	4 4 inch $\frac{1}{4}$ bends.
3 3 inch pipes.	2 6 inch $\frac{1}{8}$ bends.
3 24 inch sleeves.	1 8 $\frac{1}{4}$ bend.
5 12 inch sleeves.	1 4 inch Y.
4 10 inch sleeves.	1 4 inch reversed curve.
1 10 to 8 in. tee.	6 8 inch clamps.
3 10 to 6 in. tees.	7 10 inch clamps.
1 8 inch tee.	2 12 inch clamps.
2 8 to 6 inch tees.	6 6 inch clamps.
4 6 to 4 inch tees.	2 4 inch clamps.
2 4 inch tees cement.	1 3 inch clamp.
9 4 inch crosses.	1 3 inch valve.
3 6 inch crosses.	1 pair callipers.

# INVENTORY OF MISCELLANEOUS PIPE, CASTINGS, &c., IN STOCK AT OFFICE.

1 4 inch tee.	5 extra top valve box frames.
4 6 inch tees.	7 bottom valve box frames.
3 8 inch sprinkler tees.	1 6 inch pipe.
1 6 inch sprinkler tee.	1 6 inch pipe 9 feet long.
1 3 inch sprinkler tee.	37 ft of 6 inch pipe in pieces.
3 8 to 6 inch reducers.	14 ft of 8 inch pipe in pieces.
1 10 to 6 inch reducer.	1 4 inch pipe.
1 8 to 4 inch reducer.	60 ft of 4 inch pipe in pieces.
8 4 to 3 inch reducers.	1 3 inch pipe
1 6 to 4 inch reducer.	16 ft of 3 inch pipe in pieces.
4 4 inch $\frac{1}{8}$ bends.	2 furnaces.
3 6 inch $\frac{1}{8}$ bends.	4 lead pots.
1 8 inch $\frac{1}{8}$ bend.	1 furnace & kettle for heating water.
3 6 inch elbows.	3 goose-necks for Manning hyds.
1 8 inch elbow.	12 ctr covers for cistern valve boxes.
7 8 inch sleeves.	17 2 inch unions.
1 6 inch sleeve.	21 2 inch couplings.
5 3 inch sleeves.	11 2 inch plain.
2 24 inch sleeves.	25 2 inch nipples.
3 6 inch reversed curves.	1 2 inch tee.
4 4 inch reversed curves.	1 2 to $\frac{1}{4}$ tee.
8 fire hydrants (Woods).	64 ft of 2 inch pipe in pieces.
1 fire hydrant stock (Woods.)	1 2 in. run'g thread nipple, locknut.
1 3 inch curve.	13 $1\frac{1}{2}$ inch unions.
3 bottom cyl. for Manning hyds.	21 $1\frac{1}{2}$ inch couplings.
1 top cylinder for Mann'g hydrants	6 $1\frac{1}{2}$ inch elbows.
5 cylinder valve boxes.	3 $1\frac{1}{2}$ inch street elbows.
19 cylinder valve box covers.	3 $1\frac{1}{2}$ inch tees.
8 No. 1 valve boxes.	3 $1\frac{1}{2}$ inch to $\frac{1}{4}$ tees.
2 No. 2 valve boxes.	26 $1\frac{1}{2}$ inch nipples 2 to 12 in. long.

INVENTORY OF MISCELLANEOUS STOCK, TOOLS,  
FITTINGS, &c., IN STORE ROOM AT OFFICE.

3 2 inch plugs.	3 1½ caps.
1 plug for Manning hydrants.	5 1 inch caps.
6 1½ unions.	8 1 inch plugs.
8 1½ elbows.	3 ¾ plugs.
6 1½ to 1½ reducing couplings.	2 ¾ caps.
12 1½ to 1 inch reducing couplings.	50 ft of ¾ pipe.
12 1 to ¾ inch reducing couplings.	12 8 inch wrought clamps.
3 1½ inch couplings.	3 6 inch wrought clamps.
8 2 to 1½ inch bushings.	1 10 inch wrought clamp.
8 1½ to 1½ inch bushings.	1 12 inch wrought clamp.
8 1½ to 1 inch bushings.	9 picks.
10 1 to ¾ inch bushings.	3 sledges.
5 1 inch unions.	1 axe.
12 1 inch elbows.	2 crowbars.
4 1 inch street elbows.	2 long-handle shovels.
4 1 inch tees.	2 snow shovels.
22 1 inch couplings.	1 grind-stone.
4 4 inch wrought clamps.	2 4 inch valves.
7 1½ nipples.	4 2 inch globe valves.
25 1 inch nipples.	2 set of calking tools.
12 ¾ inch unions.	4 S wrenches.
34 ¾ inch couplings.	3 monkey wrenches.
11 ¾ inch street elbows.	1 combination wrench.
13 ¾ inch elbows.	1 machinist hammer.
5 ¾ tees.	1 calking hammer.
44 ¾ nipples.	1 riveting hammer.
27 ft of 1 inch pipe in pieces.	3 wood hydrant wrenches.
1 1½ pipe 14 ft. 2 in. in length.	1 stuffing box wrench for wood hyd.
1 1½ pipe 13 ft. 2 in. in length.	1 stuffing box wrench.
5 1½ plugs.	2 street sprinkler wrenches.

INVENTORY OF MISCELLANEOUS STOCK, TOOLS,  
FITTINGS, &c., IN STORE ROOM AT  
OFFICE—CONTINUED.

1 globe valve wrench.	4 capston bars.
1 large extension key wrench.	1 6 inch sprinkler tee.
2 reservoir wrenches	2 3 inch sprinkler tees.
2 hose wrenches.	10 4 inch sleeves.
1 street washer wrench.	1 3 inch sleeve.
1 stuff'g box wrench for Cinn. hyd.	2 6 inch sleeves.
1 die for manning hyd.	1 3 inch elbow.
1 steel jimmy.	1 mattock.
1 C. W. W. brand.	1 set gearing for 30 in. valve to lay on side.
1 chain and lever for wood hyd.	1 set gearing for 30 inch valve.
1 maul.	1 set gearing for 16 inch valve.
1 tool bag.	6 12 inch wood plugs.
20 ft. of $\frac{3}{4}$ blk tin pipe, fun'l & dip'r.	6 10 inch wood plugs.
7 pr. steady washers for Man'g hyd.	6 8 inch wood plugs.
4 pr steady washers for Farran hyd.	2 6 inch wood plugs.
2 brass Manning hydrants.	11 4 inch wood plugs,
8 copper Farran hydrants.	8 3 inch wood plugs,
4 balls of twine.	2 lamp posts.
2 set of chain for pipe laying.	11 pounders.
2 light chains.	4 sprinkler boxes.
4 pipe for meter tests.	1 screw for 8 inch valve.
1 set of blks and rope for pipe laying.	10 lbs. of sheet lead.
1 set of 1 ton differential blocks.	1 set of bits from $\frac{1}{4}$ to 1 $\frac{1}{2}$ inch.
1 folding derrick.	1 bit stock.
1 1 $\frac{1}{2}$ running thread nipple, lock nut.	1 saw.
6 1 inch right and left couplings.	1 keyhole saw.
6 $\frac{3}{4}$ inch right and left couplings.	1 jack-plane.
3 ladles.	3 flat files.
1 fire shovel and furnace with kettle for heating water.	1 $\frac{1}{2}$ inch square file.



INVENTORY OF MISCELLANEOUS STOCK, TOOLS,  
FITTINGS, &c., IN STORE ROOM AT  
OFFICE—CONTINUED.

1 $\frac{1}{4}$ inch square file.	1 pr wire pliers.
1 claw hammer.	1 tape line, worn.
1 square.	1 counter sink.
1 drawing knife.	1 scratch awl.
2 wood chisels.	1 pair shears for trimming lamps.
1 oil stone.	1 lb. small copper wire.
3 screw drivers.	1 lb. small brass wire.
1 pr shears for cutting gaskets.	1 hatchet.
1 washer cutter.	9 brass top screws for Mani'g hyd.
1 pr callipers.	1 stock with dies from $\frac{1}{4}$ to 2 inch.
1 13-16 top for hydrant screws.	2 pipe cutters.
1 $\frac{3}{8}$ top for hydrant screws.	2 pair of 3 inch pipe tongs.
28 lbs. rubber packing.	2 pr. extension tongs from 1 to 2 in.
1 (standard gauge) street coupling complete.	1 pair 2 inch tongs.
12 rubber gaskets for meter stuffing boxes.	2 pair tongs from $\frac{1}{4}$ to 1 inch.
20 lbs. of nails.	1 pr. extension tongs $\frac{1}{8}$ to $\frac{3}{4}$ .
11 sheets of emery paper.	1 water pressure gauge with hyd- rant attachment.
1 1-16 nozzle.	1 set br's reduc'g coupl'gs 2 $\frac{1}{2}$ to $\frac{1}{4}$ in.
1 $\frac{1}{8}$ nozzle.	1 2 in. R.&L.br's coup'lg met'r tests.
1 3-16 nozzle.	1 1 $\frac{1}{2}$ " " "
1 $\frac{1}{4}$ nozzle.	1 " " "
1 5-16 nozzle.	1 $\frac{3}{8}$ " " "
1 $\frac{3}{8}$ nozzle.	1 2 inch right brass coupling.
1 7-16 nozzle.	1 1 $\frac{1}{2}$ inch right brass coupling.
1 $\frac{1}{2}$ nozzle.	1 1 inch right brass coupling.
2 pr gas pliers.	1 $\frac{3}{4}$ inch right brass coupling.
	1 piece 2 in. three ply hose 8 ft. long.

INVENTORY OF MISCELLANEOUS STOCK, TOOLS,  
FITTINGS, &c., IN STORE ROOM AT  
OFFICE—CONTINUED.

1 piece $\frac{1}{4}$ hose.	5 lbs. rubber gaskets for hydrants.
1 2 inch tin pump.	25 lbs. of white lead.
1 1 inch brass pump.	3 small oil cans.
1 30 inch wrench.	3 2 inch meters, Worthington.
1 20 inch lever wrench.	3 $1\frac{1}{2}$ inch meters, Worthington.
1 16 inch lever wrench.	1 1 inch meter, Worthington.
1 16 wrench.	2 1 inch meters, Worthington, new.
1 6 inch lever wrench.	2 $\frac{1}{4}$ inch meters, Worthington.
3 3 inch wrenches.	1 large tank for testing meters.
1 4 inch wrench.	1 small tank for testing meters.
1 3 inch stop cock wrench.	3 barrels of cement.
1 hydrant claw wrench.	1 barrel of clay.
6 stop cock wrenches.	2 platform scales.
1 globe valve claw wrench.	3 sets clamps, 4 ft to 12 in. for tap'ng.
1 air cock wrench.	2 ratchets.
2 ice bars.	3 drills.
1 pair grappling tongs.	2 $\frac{1}{8}$ reamers.
2 pair rubber boots.	2 $\frac{1}{4}$ reamers.
5 yards of duck (enameled).	1 1 inch drill and reamer.
1 bench vise for pipe cutting.	1 2 inch drill and reamer.
1 swinging bench vise with movable fans for pipe cutting.	1 $\frac{1}{4}$ drill for cement pipe.
2 $\frac{1}{2}$ yards of canvas.	1 $\frac{1}{8}$ drill for cement pipe.
7 water pails.	1 1 inch drill for cement pipe.
1 5 gallon oil can.	1 brace.
1 2 gallon oil can.	1 monkey wrench.
1 marking pot and brush.	1 tool bag.
1 funnel.	65 $\frac{1}{8}$ ferules, brass.
6 lanterns.	16 $\frac{1}{8}$ cement ferules, brass.
	4 1 inch cement ferules, brass.

21 $\frac{3}{4}$ brass ferules.	52 stop cock numbers.
5 1 inch ferules.	1 shovel,
2 picks.	2 1 in. Worthingt'n met'r dials(new)
1 wheelbarrow.	3 1 $\frac{1}{4}$ " " " "
1 brass coupling 2 to 2 $\frac{1}{2}$ inch.	$\frac{1}{4}$ barrel of salt.
1 ladle rest.	

### INVENTORY OF MISCELLANEOUS ARTICLES AND MATERIALS AT OFFICE, DEC. 31, 1878.

5 desks.	1 letter scale.
4 tables.	1 transit. 1 level.
1 safe.	1 level rod.
1 rack & cupb'd for books & blanks.	2 pickets.
2 office counters and fixtures.	2 100-ft chains.
2 office partitions.	1 abstract book.
1 marble front grate.	1 cupboard for papers and reports.
1 wash bowl with marble base and spatter board.	4 waste paper baskets.
1 clock.	books, cash ledger transfer and permit books, maps, plans of machinery, boilers & buildings.
7 pictures and frames.	1 bureau for drawings.
58 yards carpeting (half worn).	1 large drawing table.
94 yards linoleum (half worn).	8 drawing boards.
95 yards matting.	1 base burner stove.
2 large chandeliers.	28 sheets of muslin-backed drawing- paper 60x21 inches.
1 tee.	2 yards vellum.
3 drop lights.	1 time roll book.
8 single light brackets.	1 stub book for maps.
2 stools.	2 yds. 58 in. egg shell drawing paper.
1 barometer.	6 yds. 58 in. egg shell muslin-backed drawing paper.
4 large maps.	3 map books showing service con- nections.
2 service pipe record books.	
2 books of pipe record & engine duty.	
1 record book of pipe in the different wards.	

INVENTORY OF TOOLS, MACHINERY, FURNITURE  
&c., BELONGING TO PUMPING WORKS, DEC. 31, '78

2 writing desks with drawers.	2 wood vises and benches.
1 chest of drawers,	1 small hand vise.
5 tables.	4 spittoons.
2 drawing tables.	7 rustic chairs.
1 stand.	4 wood arm chairs.
1 gouge.	11 wood chairs.
1 pall drill wrench.	2 pair tongs, blacksmith.
3 sets of stocks and dies.	3 record books.
4 pairs extra dies for stocks.	1 account book.
8 screw tops,	145 ft. $\frac{3}{4}$ inch rubber hose.
4 bits for brace.	4 rubber valves for Cornish engine
1 drill press.	air pumps.
5 monkey wrenches.	30 ft. $\frac{3}{4}$ inch rubber.
2 key wrenches.	15 $\frac{3}{4}$ rubber back packing.
4 hammers.	2 thermometers.
3 copper hammers.	1 barometer.
3 sledges.	3 minute glasses.
2 anvils.	2 drop lights.
1 portable forge.	25 lbs. white lead.
3 augurs.	1 clamp for raising Cornish valves.
6 coal wheelbarrows.	1 screw with ratchet complete.
5 scuttles.	5 ladders.
3 ladles.	4 step ladders.
1 grindstone.	2 large chests.
1 axe.	1 case knife.
1 hand axe.	1 clamp for piston rod.
2 dust pans.	28 open wrenches.
6 stoves.	1 oil stone.
2 clocks.	6 pails or buckets.
3 iron vises and benches.	21 6 in. leather belt for centrifugal pump.

INVENTORY OF TOOLS, MACHINERY, &c., BELONG-  
ING TO PUMPING WORKS—CONTINUED.

2 new shovels.	1 hose cart for lawn hose.
20 gallons carbon oil.	1 sickle.
120 lbs. tallow.	1 scoop for catch basins.
200 lbs. cotton waste.	1 lawn roller.
150 lbs. hemp packing.	2 coal cars.
1 40-gallon oil tank (tin).	1 carpenter's chisel.
1 5-gallon oil can (tin).	1 carpenter's gouge.
1 gallon tin measure.	6 calking tools.
2 quart tin measure.	4 squirt cans.
2 funnels.	7 lbs. can. pac'g. Worthg'tn pumps.
3 syringes.	6 rubber valves.      "      "
1 kettle & furnace for melt'g tallow.	3 seat valves,      "      "
2 cans for carbon oil.	4 rubber valves, Cuyahoga pumps.
3 globe lanterns.	6 1 inch unions.
1 drill post for pall drill.	1 flue cleaner.
8 hand lamps.	3 reamers.
3 valve wrenches.	2 pair dividers.
2 gas lighters.	15 old files.
3 stove shovels.	20 drills.
3 hair dust brushes.	1 24-inch square.
2 scrubbing brushes.	6 cold chisels.
1 ball marline.	3 cape chisels.
2 small screens.	1 spirit level.
2 dip pans.	1 bracket lamp.
1 hand saw.	8 packing hooks.
1 cross cut saw.	2 hose nozzles.
1 hack saw.	3 drippers for oil cans.
1 jack plane.	1 iron sheave.
1 beading plane.	1 set counter scales.
1 lawn mower.	1 platform scale, 600 lbs.

# INVENTORY OF TOOLS, MACHINERY, &c. BELONG- ING TO PUMPING WORKS—CONTINUED.

1 steel yard scale, 2,000 lbs.	22 fathoms 3-inch rope.
26 polished wrenches.	66 fathoms 6-inch rope.
1 3-inch bit, iron.	39    "    4½    "
1 pyrometer.	15    "    4½    "
2 iron cocks.	28    "    3½    "
4 brass globe valves.	26    "    3½    "
6 brass valve stems (Worth. pumps).	13    "    3½    "    good junk.
7 files.	11    "    3½    "
½ box crayons (white).	10    "    3    "
3 pieces leather hose (bad order).	19    "    3    "
1 brand C. W. W.	26    "    3    "
1 double lever scoop.	9    "    2½    "
1 grapnel tongs.	1 portable engine and boiler.
1 blacksmith bellows.	1 centrifugal pump.
10 new grate bars.	1 trestle for cyl. heads.
1 crab winch.	1 9-inch pipe 5 ft. long.
1 dip scoop.	1 9-inch pipe 6 ft. long.
3,000 old fire brick.	16 pieces of odd pipe.
100 ft. ⅝ iron chain.	8 pieces pine timber, odd lengths.
1 blank flange for stand pipe.	16 ft. 3. of 2½ gas pipe
1 9-inch pipe 7 ft. 5 in. long.	14 ft. of 2½    "
2 8-inch blocks purchase.	17 ft. of 3-inch    "
2 6-inch    "    "	10 ft. of 2½-inch    "
2 17-inch    "    "	7 ft. 6 in. 2½-in.    "
1 14-inch    "    "	8 ft. of 3-inch    "
1 9-inch    "    "	2 ft. 6 in. 2-in.    "
1 7-inch    "    "	34 of 3-inch    "
5 13-inch    "    "	12 of 3-inch    "
1 10-inch    "    "	9 ft. 3½    "
1 pr. iron    "    "	11 ft. 6in. of 4-in    "

INVENTORY OF TOOLS, MACHINERY, &c., BELONG-  
ING TO PUMPING WORKS—CONTINUED.

1 new main valve Cornish pump.	2 9-inch stop valves.
9 slates.	2 7-inch safety valves.
2 pair small gas tongs,	6 Cornish boilers with fronts, valves
37 sheets of emery paper.	and fittings complete.
9 barrels fire clay.	2 damper screws and stands.
2 barrels water lime.	2 extra dampers.
1 barrel white lime.	75 tons slack coal estimated.
200 lbs. pig lead.	8 tons scrap iron.
4 $1\frac{1}{4}$ bolts 10 ft. long.	1 small looking glass.
1 knife and frame.	1 hat rack.
5 lbs. sheet rubber packing.	2 high temperature thermometers.
1 set $\frac{1}{4}$ inch steel figures.	6,000 lbs. scrap iron.
2 screw drivers.	20 lbs scrap copper.
11 6-in. I beams 26 ft. 3 in. long.	





*To the Honorable City Council*

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SEVENTH ANNUAL REPORT

OF THE

BOARD OF POLICE COMMISSIONERS

OF THE

CITY OF CLEVELAND, OHIO;

COMPRISING

POLICE AND HEALTH DEPARTMENTS,

FOR THE

YEAR ENDING DECEMBER 31ST, 1878.

---

CLEVELAND.:  
WISEMAN & HARVEY, PRINTERS.  
1879.



## ORGANIZATION.

---

W. G. ROSE,

*Mayor and Ex-officio President.*

*Commissioners:*

JOHN M. STERLING, JR.,

G. W. HOWE,

LOUIS HAUSHEER,

J. R. SPRANKLE.

G. G. MINOR, *Secretary.*

---

JACOB W. SCHMITT, *Superintendent.*

---

JAS. McMAHON, *Captain.*

H. HOEHN, *Captain.*

H. HOLZWORTH, *Captain Detectives.*

---

S. T. EVERETT, *Treasurer.*

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G. B. CASE, *Health Officer.*



*Extract from Regular Meeting of the Board, held  
February, 1879.*

“The Secretary and Assistant Secretary submitted copies of Annual Reports of Police and Health Departments.

“*Ordered*, That copies be printed, two hundred copies to be bound together, and one hundred and seventy-five copies of each separately.”

By order of the Board,

GEO. G. MINOR,

*Secretary.*



SEVENTH ANNUAL REPORT  
OF THE  
Board of Police Commissioners  
OF THE  
CITY OF CLEVELAND.

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OFFICE BOARD POLICE COMMISSIONERS, }  
CLEVELAND, January 1, 1879. }

*To the Honorable City Council of Cleveland, Ohio :*

GENTLEMEN—In compliance with law, we herewith submit a report of the work of the Board and Force for the year ending December 31, 1878, embracing all matters connected with Police and Health business, for your information and consideration.

THE BOARD.

Since the last Report there has been one change in the *personnel* of the Board, the time of Commissioner Cutler having expired, the citizens at the last Spring election elected J. R. Sprankle to fill the place formerly occupied by Commissioner Cutler.

The Board at present is made up by the following citizens:

	Term Expires.
W. G. ROSE, <i>Mayor and President</i> , - - -	1879.
G. W. HOWE, - - - - -	1879.
JOHN M. STERLING, JR., - - - - -	1880.
LOUIS HAUSHEER, - - - - -	1881.
J. R. SPRANKLE, - - - - -	1882.

GEO. G. MINOR, SECRETARY,



# INVENTORY OF PUBLIC PROPERTY

BELONGING TO

THE POLICE DEPARTMENT OF THE CITY OF CLEVELAND.

No.	ARTICLES.	VALUE.
10,000	Rounds Ammunition.....	\$ 200 00
1	Book Arm Rest.....	
2	Beds and Bedding.....	
8	Blackboards.....	8 00
130	Badges, white.....	
21	Badges, gilt.....	
13	Baskets, paper.....	2 45
4	Baskets, other .....	1 25
140	Belts .....	
114	Books .....	60 00
4	Boxes, letter .....	1 50
30	Brushes, shoe.....	4 00
17	Brushes, other.....	2 40
77	Brooms.....	14 50
11	Brooms, wisp .....	1 00
27	Buckets, cell.....	
20	Buckets, other.....	4 10
1	Buggy.....	150 00
1,327	Buttons, gilt .....	
6,800	Buttons, white.....	
2	Book Cases .....	50 00
12	Boxes Cartridges, Pistol.....	20 00
1	Museum Case .....	150 00
1	Book Case .....	60 00
1	Box Case.....	10 00
1	Book Rack.....	8 00
3	Carpets, Brussels .....	20 00
5	Carpets, other.....	40 00
8	City Ordinances .....	34 00
7	City Directories.....	28 00
94	Chairs, common .....	90 00
60	Chairs, cane and splint.....	105 00
13	Chimneys, Lamp.....	75
9	Clocks.....	45 00
33	Coal, Hard, tons.....	
21	Coal, Soft, tons.....	
16	Coal Hods .....	10 00
22	Coal Stoves .....	240 00
5	Cupboards.....	22 00
7	Cups, muelage .....	1 50
61	Cups, tin.....	5 00
15	Pivotal Chairs.....	27 00
34	Chairs .....	135 00
1	Circular Desk.....	40 00
25	Desks .....	475 00
8	Drop Lights .....	34 00
2	Dust Pans.....	50
Lot	Envelopes, large, boxes.....	70
"	Envelopes, small, boxes.....	50
6	Erasers, ink.....	1 50
56	Equipments, sets.....	100 00
17	Floor Mats .....	15 00
5	Foot Rugs .....	5 00

No.	ARTICLES.	VALUE.
7	Fire Alarm Instruments .....	\$ 200 00
29	Handcuffs, pairs. ....	60 00
5	Hammers .....	3 50
388	Hose, feet....	46 00
1	Horse. ....	150 00
1	Harness .....	20 00
29	Ink Stands .....	19 00
26	Ink, bottles, black. ....	26 00
2	Ink, bottles, red .....	
7	Ladders, step....	20 00
21	Lanterns.....	20 00
3	Letter Presses .....	30 00
2	Lounges .....	20 00
Lot	Linoleum. ....	50 00
"	Linoleum.....	75 00
9	Maps. ....	25 00
Lot	Matting .....	5 00
45	Matches, boxes .....	
10	Mirrors.....	16 50
13	Mops.....	4 00
3	Mucilage, bottles.....	
56	Muskets.....	250 00
8	Oil Cloth, lots. ....	8 00
Lot	Paper, Foolscap, reams. ....	2 75
"	Paper, Letter, reams .....	
"	Paper, Legal Cap .....	50
"	Paper, Blotting Sheets, small.....	10
"	Paper, Blotting Sheets, long.....	40
8	Paper Cutters. ....	90
6	Paper Files .....	1 00
8	Paper Weights.....	2 25
10	Pads, blotting.. ....	2 00
Lot	Pens, steel .....	75
"	Penholders. ....	1 35
9	Pen Racks.....	1 50
Lot	Pencils, lead.. ....	1 00
219	Police Clubs .....	
225	Police Numbers.....	
154	Police Regulations.....	
178	Police Wreaths .....	
1	Refrigerator .....	2 00
56	Rifles and Equipments .....	
666	Rogues' Pictures .....	333 00
	Real Estate.....	130,000 00
3	Safes .....	400 00
1	Scythe and Snath .....	1 50
12	Shovels .....	4 50
Lot	Soaps, hard, boxes .....	2 00
2	Soaps, soft, barrels. ....	6 00
40	Spittoons.....	22 00
8	Sponges.....	1 30
3	Stands.....	15 00
Lot	Stationery. ....	
2	Stools.....	2 00
27	Tables .....	200 00
Lot	Tags. ....	35
10	Telegraph Instruments .....	157 00
88	Towels....	18 00
8	Towel Racks .....	2 75
3	Twine, balls.....	30
13	Water Coolers .....	26 00
6	Water Pails .....	1 00
27	Wardrobes.....	57 00
69	Window Curtains .....	45 00
1	Wrench.....	1 00
16	Zinc, sheets.....	11 00
Total Valuation.....		\$134,683 75

## THE FORCE.

Rank.	Name.	Nativity.	First Entry Into Service.	Last Appointment.	Remarks.
Superintendent.	J. W. Schmitt.	Germany.	May 1, 1886	May 17, 1876	
Captain	Henry Hoehn.	"	"	Sept. 13, 1876	
"	James McMahon.	Ireland	"	May 17, 1876	
"	H. M. Holtzworth	Germany.	"	April 12, 1876	
1st Lieutenant	M. F. Madigan.	Ireland	"	"	
2d	Conrad Koch.	Germany	30, 1886	"	
3d	Wm. Tompkins.	England	1, 1886	"	
4th	R. L. Fleury	United States.	"	"	
5th	Chas. McHannan	"	8, 1888	"	
6th	Wm. R. Simmonds	"	15, 1887	"	
7th	Philip Anthony	"	Dec. 24, 1870	"	
8th	E. E. Morse	"	Nov. 3, 1871	"	
9th	Frank Wagner.	Germany.	June 23, 1888	Sept. 13, 1876	
10th	John Schriber	United States.	April 6, 1870	April 14, 1877	
Detective.	Geo. E. Goodrich.	"	May 1, 1886	April 12, 1876	
"	Theo. Laubscher.	Germany	"	"	
"	"	Canada	Nov. 6, 1873	"	
"	"	Germany.	Oct. 20, 1886	"	
"	"	"	May 1, 1886	"	
"	"	England	"	"	
"	John Reeves	Ireland	July 8, 1875	24, 1876	
"	F. Gallagher	"	Sept. 7, 1871	June 1, 1876	
Sergeant	E. T. Granger.	United States	Sept. 11, 1888	April 13, 1876	
"	Jacob Stein	Germany.	"	Sept. 13, 1876	
"	S. Kushman.	United States	April 25, 1888	April 12, 1876	
"	P. A. Searles	"	Nov. 2, 1871	"	
"	A. Eitelman.	Germany.	May 8, 1888	"	

## THE FORCE—Continued.

Rank.	Name.	Nativity.	First Entry Into Service.	Last Appointment.	Remarks.
Sergeant	E. K. Hutchinson	United States	April 12, 1876	April 12, 1876	
"	Theo. Keegan	Ireland	" 9, 1869	" "	
Supt's Clerk	M. J. Barrow	United States	Aug. 7, 1867	" 14, 1877	
Tel. Operator	E. F. Schultz	"	April 20, 1872	" 28, 1876	
"	E. J. Rink	"	May 6, 1875	" 12, 1876	
Doorman	S. L. Miller	"	Nov. 7, 1873	" 25, 1876	
Janitor	Chas. Schroeder	"	" 27, 1873	" "	
"	David Riblett	"	April 12, 1876	April 12, 1876	
"	Alex. Smith	Ireland	" 19, 1876	" 7, 1877	
Patrolman, 1	Wm. Anthony	United States	June 27, 1873	" 12, 1876	
" 2	M. J. O'Malley	Ireland	May 23, 1871	" "	
" 3	"	Germany	Sept. 16, 1876	Sept. 16, 1876	
" 4	"	United States	April 14, 1877	April 14, 1877	
" 5	"	Ireland	" 8, 1871	" 12, 1879	
" 6	A. J. Marx	Germany	Sept. 14, 1870	" "	
" 7	John Beshold	"	Jan. 8, 1875	" "	
" 8	Geo. J. Griffin	United States	July 12, 1870	" "	
" 9	A. Manzelman	Germany	April 20, 1872	" "	
" 10	E. Shipman	England	Jan. 31, 1871	" "	
" 11	"	Germany	Aug. 7, 1867	" "	
" 12	"	"	May 1, 1868	" "	
" 13	"	"	"	"	
" 14	"	United States	Mar. 6, 1878	"	
" 15	"	"	April 21, 1873	April 12, 1876	Detailed Special Detective
" 16	"	"	Dec. 3, 1870	"	
" 17	"	Germany	Sept. 21, 1873	"	
" 18	"	Ireland	May 1, 1866	"	
" 19	"	United States	Nov. 13, 1871	"	
" 20	"	Ireland	Aug. 22, 1873	"	
" 21	"	England	April 7, 1873	"	
" 22	Patrick Carr	Ireland	Jan. 8, 1875	"	
" 23	Wm. Mylesbratno	Isle of Man	Feb. 23, 1872	"	
" 24	F. K. Buechler	Germany	May 1, 1873	"	

## THE FORCE—Continued.

Rank.	Name.	Nativity.	First Entry Into Service.	Last Appointment.	Remarks.
Patrolman 25		Ireland	May 1, 1866	April 12, 1876	
" 26		Germany	Dec. 2, 1875	May 31, 1876	
" 27		"	May 1, 1866	April 12, 1876	Detailed Court Duties.
" 28		United States	April 20, 1872	"	
" 29		Bohemia	" 30, 1873	"	
" 30		Nova Scotia.	" 20, 1872	"	
" 31		United States.	Jan. 20, 1873	"	
" 32		Germany.	Nov. 21, 1871	"	
" 33		"	Jan. 17, 1875	"	
" 34		United States	Dec. 4, 1873	"	
" 35	Richard Dunn	England.	May 1, 1866	April 12, 1876	Detailed Janitor, 2d Precinct.
" 36	A. R. Rumsey.	United States	Oct. 24, 1877	Oct. 24, 1877	
" 37	H. A. Cordes	"	July 20, 1866	April 12, 1876	
" 38	Thomas Hoban	Ireland	Sept. 22, 1871	"	
" 39	M. F. Wood	United States.	May 9, 1877	May 9, 1877	
" 40	E. S. French	"	Aug. 23, 1866	April 12, 1876	
" 41	S. D. Mell	"	April 30, 1873	"	
" 42	John P. Norton	Ireland	May 8, 1869	"	
" 43	Geo. W. Willis	United States.	May 1, 1866	"	Detailed Union Depot.
" 44	C. A. Cowan	Ireland	Nov. 2, 1865	"	
" 45	D. A. Writenour.	United States	April 24, 1874	"	
" 46	Jacob Ganz	Germany.	May 30, 1866	"	
" 47	Patrick O'Malley	Ireland.	June 10, 1875	"	
" 48		United States	Dec. 7, 1876	Dec. 7, 1876	
" 49		England.	May 15, 1874	April 12, 1876	Detailed Day Roundman.
" 50		United States	July 19, 1871	"	
" 51		Germany.	April 6, 1877	"	
" 52		Ireland	April 13, 1869	"	
" 53		England.	Nov. 6, 1872	"	
" 54		United States.	" 28, 1873	"	
" 55		"	" 13, 1871	"	
" 56		Ireland	" 20, 1873	Nov. 20, 1876	
" 57	John P. Haley	United States	April 10, 1874	April 12, 1876	
" 58	Richard Reeve.	"	" 2, 1873	"	

## THE FORCE—Continued.

Rank.	Name.	Nativity.	First Entry Into Service.	Last Appointment.	Remarks.
Patrolman 59.	W. S. Lipps.	United States.	April 20, 1872	April 26, 1876	Detailed Court Officer.
60	Wm. Weygandt.	"	Sept. 4, 1877	Sept. 4, 1877	
61	J. H. Hicks	Germany.	June 11, 1873	April 12, 1876	
62	Philip Salmon	United States.	Jan. 3, 1878		
63	E. A. Boynton	"	Mar. 9, 1876	April 12, 1876	
64	H. Feldecamp.	Germany.	Aug. 6, 1873	"	
65	John Sprankel	United States	May 8, 1868	"	
66	W. L. Gilchrist.	Ireland.	" 16, 1871	"	
67	Chas. Eckard.	Germany.	" 1, 1866	"	
68	John Quinn.	"	Nov. 20, 1860	"	
69	George Kadel	United States	May 8, 1868	"	
70	Chas. Tressell.	Ireland.	Apr. 20, 1872	"	
71	Trasser Brown.	Germany.	Nov. 13, 1871	"	
72	John Burns.	United States	May 8, 1868	"	
73	P. J. Luehrs.	Ireland.	Apr. 20, 1872	"	
74	Jacob Mayers.	Heligoland.	Nov. 13, 1871	"	
75	A. A. Lawrence, Jr.	Germany.	Nov. 23, 1874	"	
76	Peter Kadel.	United States	May 8, 1868	Nov. 20, 1878	
77	C. McIlrath.	Germany.	May 16, 1871	Aug. 16, 1876	
78	E. W. Bradley.	United States.	Apr. 20, 1875	Apr. 12, 1876	Detailed Oil Refineries.
79	J. W. Varner.	"	Jan. 21, 1878	Aug. 2, 1876	
80	J. C. Denzer.	"	Nov. 27, 1878		
81	J. Matzourek.	Bohemia	Nov. 15, 1874	April 12, 1876	
82	F. R. Douglass.	Ireland.	May 13, 1871	"	
83	Jacob Reese	Germany.	Apr. 19, 1875	"	
84	F. B. Eustace	United States.	" 3, 1874	"	
85	J. McCormick.	Ireland	Sept. 7, 1871	"	
86	A. J. Barnes	United States.	Nov. 26, 1874	"	
87	A. M. Blood.	"	Jan. 20, 1875	"	
88	D. Cantillon.	Ireland	Apr. 10, 1875	June 1, 1876	
89	Geo. W. Floyd	United States.	Sept. 7, 1871	Apr. 12, 1876	
90	F. R. Humphrey	England.	Mar. 26, 1873	"	Detailed Court Duties.
91	Jas. Edwards.	United States.		"	
92	M. F. Slesby.	"		"	

THE FORCE—Continued.

Rank.	Name.	Nativity.	First Entry Into Service.	Last Appointment.	Remarks.
Patrolman 93.	M. W. Murphey.	United States	Sept. 7, 1871	April 12, 1876	
" 94.	Patrick Kennedy.	Ireland.	June 10, 1875	"	
" 95.	A. McMillan	Canada	Feb. 23, 1872	"	
" 96.	J. F. Megerth	Switzerland.	May 1, 1872	"	
" 97.	Henry Selbel.	United States	Feb. 5, 1873	"	
" 98.	John P. Bramley	England.	Nov. 2, 1871	"	
" 99.	F. J. Lambert.	Germany.	"	"	
" 100.	F. C. Lauser	"	"	"	
" 101.	Chas. Fischer.	"	23, 1872	"	
" 102.	S. B. Close.	United States	July 17, 1874	"	
" 103.	Frank Kulas.	Bohemia.	Nov. 2, 1871	"	
" 104.	J. H. Mangan.	Ireland.	May 16, 1878	"	
" 105.	Charles McMasters.	United States	Sept. 18, 1875	April 12, 1876	
" 106.	James Wall.	"	Nov. 27, 1878	"	
" 107.	Chas. Dangler.	"	Feb. 8, 1878	"	
" 108.	George D. Scott	"	April 9, 1877	April 9, 1877	
" 109.	John Sprosty.	Bohemia	Sept. 21, 1878	"	
" 110.	James Waite.	United States	Nov. 6, 1872	April 12, 1876	
" 111.	W. A. Sherman.	"	"	"	
" 112.	J. W. Francis.	"	"	"	
" 113.	J. Hageman.	"	"	"	
" 114.	J. McGraw	Ireland.	Sept. 9, 1875	Aug. 2, 1876	
" 115.	Wm. O'Brien.	"	April 6, 1877	April 6, 1877	
" 116.	Chas. Miller	United States	Jan. 13, 1873	"	
" 117.	Henry Brown	Germany.	Mar. 5, 1875	"	
" 118.	Philip Heege.	"	Feb. 5, 1873	"	
" 119.	A. R. Sidley	United States	"	"	
" 120.	D. McCusky.	Ireland	Jan. 18, 1878	"	
" 121.	M. H. Stofer	United States	Feb. 5, 1873	April 12, 1876	
" 122.	J. O'Laughlin.	Ireland	"	"	
" 123.	Wm. Schneearline.	United States	"	"	
			Nov. 26, 1874	"	
					Detailed Janitor 4th Precinct.

## . NATIVITY.

COUNTRY.	Dec. 31, 1877.	Dec. 31, 1878.	Increase.	Decrease.
Bohemia .. . . . . .	3	4	1	
Canada.....	2	2		
England.....	9	9		
Germany.....	43	39		4
Heligoland. ....	1	1		
Ireland .. . . . . .	32	31		1
Isle of Man .. . . . .	1	1		
Novo Scotia. ....	1	1		
Scotland.....	1	0		1
Switzerland.....	1	1		
United States .. . . .	68	73	5	
Total.....	162	162	6	6



## PAY OF THE FORCE

AND AMOUNT ENTITLED TO BE DRAWN BY THE ENTIRE POLICE AND HEALTH  
DEPARTMENTS.

No.	OFFICERS.	Yearly Compensa- tion.	Total.	Grand Total.
<b>POLICE.</b>				
1	Superintendent.. .. .	\$2,000 00	\$2,000 00	
1	Secretary .. . . .	1,500 00	1,500 00	
3	Captains .. . . .	1,298 00	3,888 00	
10	Lieutenants.. . . .	950 00	9,500 00	
7	Detectives.. . . .	950 00	6,650 00	
1	Detective, Special.. . . .	758 00	758 00	
8	Sergeants.. . . .	875 00	7,000 00	
1	Superintendent's Clerk.. . . .	900 00	900 00	
2	Telegraph Operators .. . . .	480 00	960 00	
2	Doormen. . . . .	600 00	1,200 00	
2	Janitors .. . . .	700 00	1,400 00	
1	Fireman.. . . .	500 00	500 00	
123	Patrolmen. . . . .	758 00	92,988 00	
<b>SANITARY.</b>				
1	Health Officer. . . . .	1,200 00	1,200 00	
1	Secretary .. . . .	1,000 00	1,000 00	
1	Sergeant. . . . .	720 00	720 00	
4	District Physicians .. . . .	600 00	2,400 00	
1	District Physician.. . . .	400 00	400 00	
1	District Physician.. . . .	460 00	460 00	
6	Sanitary Policemen.. . . .	660 00	3,960 00	
1	Steward Small Pox Hospital )			
1	Matron Small Pox Hospital )	550 00	550 00	
				<b>\$139,982 00</b>

DISTRIBUTION OF THE FORCE.

WHERE STATIONED.	REGULAR FORCE.							SUBORDINATES.				Social (Cond'n.		NATIVITY.												
	Superintendents.	Secretaries.	Captains.	Lieutenants.	Detectives.	Sergeants.	Patrolmen.	Superintendent's Clerk.	Telegraph Operators.	Doormen.	Janitors.	Firemen.	Total.	Married.	Single.	United States.	Germany.	Ireland.	England.	(Canada.	Switzerland.	Isle of Man.	Nova Scotia.	Holland.	Bohemia.	Total.
Headquarters.....	1	1	1		6				1				10	8	2	3	4	1	1	1						10
First Precinct .....			1	2		1	41	1	1	2	1	1	51	44	7	27	8	12	3	3		1				51
Second Precinct.....				2		1	13						16	14	2	6	5	4	1	1						16
Third Precinct.....				2		1	20				1		24	24	3	10	8	2	2			1	1		2	24
Fourth Precinct.....			1	2	2	1	25						31	38	3	12	7	8	2	2	1			1		31
Fifth Precinct .....				2		2	8						10	8	2	7	2	1		1					1	10
Seventh Precinct. ....				1		1	8						10	10	1	4	4	1							1	10
Eighth Precinct.....				1		1	8						10	9	1	4	3	2							1	10
Total.....	1	1	3	10	8	8	123	1	2	2	2	1	162	145	17	73	41	30	8	2	1	1	1	1	4	162

THE FOLLOWING APPOINTMENTS WERE MADE DURING THE YEAR:

Date.	Name.	Age.	Nativity.	Former Occupation.	Social Condition.	Appointed.
January 3. ....	E. A. Boynton.....	40	United States...	Finisher .....	Married. ....	Patrolman.
January 18.....	A. R. Sidley ... ..	24	United States.....	Salesman.....	Married.....	Patrolman.
January 21 .. .	J. W. Varner.....	32	United States .. .	Railroad Conductor.....	Married.....	Patrolman.
February 8 .....	J. Wall .....	30	United States.....	Moulder.....	Married. ....	Patrolman.
March 6.....	D. W. McCready ... ..	36	United States.....	Harness Maker.....	Married. ....	Patrolman,
May 16. . . . .	F. Kulas. ....	33	Bohemia.. ..	Carpenter .....	Married.....	Patrolman.
September 21 ....	G. D. Scott .....	27	United States .. .	Salesman. ....	Married.....	Patrolman.
November 7. ....	S. L. Miller .....	42	United States.....	Sail Maker .....	Married.....	Doorman.
November 27.....	J. C. Denzer .....	27	United States.....	Blacksmith ... ..	Married.....	Patrolman.
November 29. ...	A. A. Lawrence, Jr. ....	24	United States .....	Hair Dresser.....	Married. ....	Patrolman.
November 27. ...	C. McMasters .....	29	United States.....	Teamster.....	Single.....	Patrolman.
November 27.....	C. Schroeder .....	21	United States.....	Silver Plater .....	Single.....	Doorman.
December 4. ....	J. Boyer ... ..	24	United States.....	Painter .....	Married.....	Patrolman.

## MEMBERS OF THE FORCE TRIED DURING THE YEAR 1878.

Date—1878.	Name.	Rank.	Charge.	Finding of Board.
January 2.....	A. Gohres.....	Patrolman.....	Violation of Rules.....	Not Guilty.
January 4.....	C. Frederichs.....	".....	Stealing, etc.....	"
January 15.....	E. E. Morse.....	Lieutenant.....	Violation of Rules.....	\$25.00 and Reprimanded.
January 18.....	A. Wagner.....	Patrolman.....	Sleeping on Duty.....	Reprimanded.
January 18.....	P. L. Cox.....	".....	Neglect of Duty.....	Dismissed.
January 18.....	C. Frederichs.....	".....	Perjury, etc.....	"
February 1.....	J. Schumacher.....	".....	Neglect of Duty.....	Resigned under Charges.
February 15.....	H. Cordes.....	".....	Violation of Rules.....	\$10.00 and Reprimanded.
February 15.....	William Drew.....	".....	Leaving Beat.....	Reprimanded.
February 15.....	E. Shipman.....	".....	".....	\$10.00 and Reprimanded.
March 1.....	H. Fehlhaber.....	".....	Drunk.....	\$25.00 and Reprimanded.
March 1.....	J. Krentzel.....	".....	False Statements.....	"
April 12.....	A. R. Sidley.....	".....	Violation of Rules.....	Reprimanded.
April 12.....	P. Carr.....	".....	".....	"
April 12.....	S. B. Close.....	".....	".....	Resigned under Charges.
April 24.....	George Fifield.....	".....	".....	Reprimanded.
April 24.....	J. Ganns.....	".....	".....	Resigned under Charges.
May 15.....	F. C. Pecord.....	".....	".....	"
May 29.....	H. Rogge.....	Doorman.....	".....	"
September 11.....	M. Ostermeyer.....	Patrolman.....	Sleeping on Duty.....	\$25.00 and Reprimanded.
September 11.....	D. Cantillon.....	".....	Deserting Beat.....	Reprimanded.
September 11.....	J. Ganns.....	".....	Intoxication.....	\$15.00 and Reprimanded.
September 16.....	P. Graff.....	".....	Violation of Rules.....	Resigned under Charges.
September 16.....	S. M. Thorman.....	".....	Deserting Beat.....	\$10.00 and Reprimanded.
October 9.....	C. Fischer.....	".....	Incompetency.....	Not Guilty.
October 23.....	M. A. Sherman.....	".....	Deserting Beat.....	"
October 23.....	Dan. Cantillon.....	".....	Drunk on Duty.....	Reprimanded.
November 6.....	John Mackin.....	".....	Smoking on Duty.....	"
November 20.....	Abraham Gohres.....	".....	Violation of Rules.....	Dismissed.
November 27.....	J. C. Miller.....	".....	Deserting Beat.....	"
November 27.....	John Mackin.....	".....	Drunk on Duty.....	"
December 4.....	A. Wagner.....	".....	Sleeping on Duty.....	"
December 30.....	Joseph Krentzel.....	".....	Violation of Rules.....	\$25.00 and Reprimanded.
December 30.....	D. McClusky.....	".....	".....	\$25.00 and Reprimanded.

CHANGES IN THE DEPARTMENT.

	Superintendent.	Secretary	Captains.	Lieutenants.	Sergeants.	Detectives.	Patrolmen.	Superintendent's Clerk.	Doormen.	Telegraph Operators.	Janitors.	Firemen.	Total.
Remaining last Report....	1	1	3	10	8	8	123	1	2	2	2	1	162
Appointed during the year							11		2				13
Died.....							2						2
Dismissed from the Force.							9						9
Promoted to .....							1						1
Promoted from .....									1				1
Remaining .....	1	1	3	10	8	8	123	1	2	2	2	1	162

## HEADQUARTERS, PRECINCTS, DISTRIBUTION OF MEN AND STATION HOUSES.

The boundaries of Precincts remain the same as at last Annual Report, except the Third and Seventh, which have been changed by taking from the Third the territory contained in the following: West on Garden street to Hayward street; north on Hayward to Euclid avenue; east on Euclid avenue to Case avenue, and north to the Lake shore, all of which has been added to the Seventh Precinct.

### HEADQUARTERS

At City Hall, Rooms Nos. 15 and 16. The Board and Secretary occupy No. 15, the Superintendent and one Telegraph Operator No. 16, and Detectives No. 14; No. 15, second floor, is used for store room.

### DISTRIBUTION OF FORCE.

<i>Headquarters</i> —One Superintendent, one Captain, one Secretary, six Detectives, one Operator.....	10
<i>First Precinct</i> —One Captain, two Lieutenants, one Sergeant, forty-one Patrolmen, one Superintendent's Clerk, one Operator, two Doormen, one Janitor, one Fireman.....	51
<i>Second Precinct</i> —Two Lieutenants, one Sergeant, thirteen Patrolmen.....	16
<i>Third Precinct</i> —Two Lieutenants, one Sergeant, twenty Patrolmen, one Janitor.....	24
<i>Fourth Precinct</i> —One Captain, two Lieutenants, two Detectives, one Sergeant, twenty-five Patrolmen.....	31

<i>Fifth Precinct</i> —Two Sergeants, eight Patrolmen.....	10
<i>Seventh Precinct</i> —One Lieutenant, one Sergeant, eight Patrolmen .....	10
<i>Eighth Precinct</i> —One Lieutenant, one Sergeant, eight Patrolmen .....	10
Total.....	162

## STATION HOUSES.

The Station Houses are located as follows :

*First Precinct*—On Champlain street, west of Seneca. This Station contains the offices of the Police Clerk, Captain of the Eastern District, and the Police Court Room.

*Second Precinct*—Station House is situated on the corner of Nevada and Oregon streets.

*Third and Sixth Precincts*—On Forest street, between Brownell and Croton.

*Fourth Precinct*—On Detroit street, near Pearl. Is the headquarters of the Western District (Fourth and Fifth Precincts), and contains the office of Captain McMahon.

*Fifth Precinct*—On Barber avenue, east of Columbus street.

*Seventh Precinct*—Room at No. 1220 Euclid avenue, near Willson avenue.

*Eighth Precinct*—Station is located on Wales street, Eighteenth Ward.

HEALTH STATEMENT.

MONTH.	Days Requir'd to be Served.	Days Served.	Absentees.		Total.	Average Strength of Force.
			Sickness.	Other Causes.		
January.....	4,984	4,917	61	6	67	161
February.....	4,507	4,443	45	19	64	160
March.....	4,984	4,933	48	3	51	161
April.....	4,828	4,755	22	51	73	161
May.....	4,980	4,917	24	49	73	161
June.....	4,808	4,707	39	72	101	160
July.....	4,980	4,819	31	110	141	160
August.....	4,980	4,786	38	36	174	160
September.....	4,800	4,652	36	32	168	160
October.....	4,980	4,834	31	45	126	160
November.....	4,824	4,726	33	35	98	161
December.....	4,991	4,883	33	25	108	161
Total .....	58,599	57,352	661	583	1,244	

Average Yearly Strength of Force.....	160.50 men
“ “ Attendance—each man.....	357.36 days
“ “ Loss of Time—each man.....	7.64 days
Total Time Lost from Sickness.....	661 days }
“ “ “ “ Other Causes.....	538 days }
Average Daily Loss of Time for Year.....	3.40 men
Average Loss from Sickness.....	181 men }
“ “ “ “ Other Causes.....	159 men }



## STATION HOUSES.

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The Station Houses now in use are in as good condition as could be expected. Some of them should be improved and made more comfortable for the Force and prisoners. The condition of the Police Court Fund, from which all repairs and cost of building station houses is paid, has been such as to prevent any large outlay; and though the Board have been compelled to incur some expense upon the First and Fifth Precincts, the amounts expended have been kept within the means at the disposal of the Board. The building in the Eighth Precinct, although nearly new, having been in use but five years, is in bad condition, consequent upon the faulty construction of the foundations, which were insufficient, and hence settled so as to derange levels and cause much inconvenience in the use of cages. This has been remedied with trifling expense, but before long repairs must be made to make this structure serviceable.

In accordance with suggestions made in last Annual Report the Station for Seventh Precinct has been changed from Hovey's block, near Doan street, in 17th Ward, to a room at No. 1220 Euclid Avenue, near Willson. Ample accommodations have been provided for the business of the Precinct, and six iron cages built and placed in the Station. The Station is a model for neatness and convenience, located in premises leased at a rental of \$25 per month.

In this connection it may be proper to call attention to the fact that several of the Station Houses are still provided with stone cells, when every consideration of humanity and a regard for the health and comfort of the Force and prisoners demand that the iron cage should be substituted as soon as the expense can be provided for.



ANNUAL REPORT

OF

The Detective Department,

FOR THE

YEAR ENDING DECEMBER 31ST, 1878.



*To the Honorable Board of Police Commissioners:*

**GENTLEMEN:**—I hereby submit to your Honorable Board of Police Commissioners the Annual Report of the Detective Department for the year ending December 31, 1878.

Respectfully submitted,

**J. W. SCHMITT,**  
*Supt. of Police.*



# REPORT OF THE DETECTIVE SERVICE.

CLEVELAND, O, January 1, 1879.

*J. W. Schmitt, Sup't of Police:*

SIR:—The following is a report of the labor performed by the Detective Department during the year ending December 31, 1878.

THE FOLLOWING ARRESTS WERE MADE DURING THE YEAR:

OFFENCES.	No.	OFFENCES.	No.
Assault and battery .....	3	Insane.....	1
Abusing officer.....	1	Keeping disorderly house.....	1
Adultery.....	1	Keeping house of ill fame.....	1
Attempt at murder.....	1	Keeping gambling house.....	1
Assaulting officer.....	1	Libel.....	1
Assault with intent to rob.....	1	Murder.....	1
Burglary.....	28	Obtaining goods by false pretenses	3
Buying and receiv'g stolen prop'rt'y	2	Obtaining money " "	9
Common beggar.....	1	Obstructing officer.....	1
Cruelty to animals.....	1	Petit larceny.....	58
Cutting with intent to wound.....	1	Receiving stolen property .....	7
Careless driving .....	2	Rape.....	1
Counterfeiting.....	2	Robbery.....	5
Capias.....	1	Suspicion.....	46
Carrying concealed weapons .....	1	Shooting with intent to kill ..	3
Drunk.....	19	Seduction .....	2
Disturbance.....	7	Stealing dead body.....	6
Disorderly conduct .....	10	Secreting dead body.....	4
Destroying property.....	1	Vagrancy.....	3
Embezzlement.....	7	Violating R. R. ordinance.....	3
Forgery.....	6	Violating property ordinance	3
Fugitive from justice.....	5	Violating junk ordinance.....	1
Grand larceny.....	25	Violating exhibition ordinance..	1
Gambling.....	4		
Horse stealing.....	4		
House breaking.....	2		
Incorrigible conduct.....	4		
Indecent exposure of person.....	1		
		Total.....	302

Much valuable assistance has been rendered to officers from abroad in their search after criminals, and thirty-four parties arrested here on felonious charges have been remanded to such officers, as follows:

No.		No.	
Adrian, Mich.....	1	Norwalk, O.....	2
Akron, O.....	2	Oil City, Pa.....	1
Bay City, Mich.....	1	Pittsburgh, Pa.....	1
Chicago, Ill.....	6	Painesville, O.....	2
Cincinnati, O.....	1	Perrysburgh, O.....	1
Cuyahoga Co.....	2	Racine.....	1
Detroit, Mich.....	2	U. S. Authorities.....	3
Dunkirk, N. Y.....	1	Willoughby, O.....	1
Erie, Pa.....	1		
Elyria, O.....	1		
Jefferson, O.....	1		
LaGrange.....	2	Total.....	34
Newark, N. Y.....	1		

STOLEN PROPERTY RECOVERED.

MONTH.	Amount.	MONTH.	Amount.
January....	\$ 1,940 23	August.....	\$ 339 25
February....	1,960 20	September.....	2,253 80
March....	354 88	October.....	2,425 22
April.....	1,097 23	November....	580 17
May.....	3,107 40	December.....	192 40
June.....	520 00		
July.....	809 30	Total.....	\$15,580 08

COMMUNICATIONS FROM ABROAD.

During the year the following communications were received:

Letters, . . . . .	381
Postal Cards, . . . . .	412
Circulars, . . . . .	176
Telegraph dispatches, . . . . .	299
Total, . . . . .	1,268



## REPORT OF EMIGRANT OFFICER.

Emigrant Detective Schroeder reports as follows:

9,953 emigrants arrived during the year. 7,930 came via the L. S. & M. S. R'y; 1,292 came via the C. & P. R'y; 731 came via the A. & G. W. R'y.

638 emigrants settled in this city, of the following nationalities: Germans, 202; Bohemians, 148; Irish, 130; English, 97; Hungarians, 44; Italians, 10; Hollanders, 7.

The following is a tabular report showing the number of emigrants passed through the city, roads by which they came, number settled in the city, and their nationality, for the year ending December 31, 1878:

MONTH.	RAILROADS.			Totals.
	L. S. & M. S.	C. & P.	A. & G. W.	
January.....	207	40	35	282
February.....	280	57	45	382
March.....	427	164	52	643
April.....	841	156	28	1,025
May.....	1,308	149	104	1,561
June.....	1,122	131	78	1,331
July.....	796	124	58	978
August.....	532	130	81	743
September.....	517	116	56	689
October.....	1,180	104	94	1,378
November.....	458	65	50	573
December.....	462	56	52	570
Total....	7,930	1,292	731	9,953

## SETTLED IN THE CITY.

MONTH.	German.	Bohemians.	Irish.	English.	Hungarians.	Italians.	Hollanders.	Total.
January.....	9	6	....	5	....	....	....	20
February.....	11	5	9	6	....	3	....	34
March.....	21	12	5	7	....	....	....	45
April.....	20	11	9	28	....	....	....	65
May.....	40	26	15	8	8	....	....	97
June.. ..	10	13	29	7	6	....	7	80
July.....	16	23	12	6	12	....	....	72
August.....	14	10	13	5	2	....	....	44
September....	13	7	10	8	6	....	....	44
October.....	16	17	19	6	7	....	....	65
November.....	14	10	6	7	3	....	....	40
December.....	10	5	3	4	....	7	....	29
Total.....	202	148	130	97	44	10	7	638

Respectfully Submitted,

H. M. HOLZWORTH,

*Captain of Detectives.*

The following Statistical Tables show the result of the labors of the Force for the year ending December 31st, 1878, in detail.



SALOONS, HOUSES OF ILL FAME, ETC.

	PRECINCTS.							Total—1878.	Total—1877.	Increase.	Decrease.
	First.	Second.	Third and Sixth.	Fourth.	Fifth.	Seventh.	Eighth.				
Saloons .....	313	131	238	405	157	44	54	1,342	1,218	124	...
Houses of Ill Fame .....	60	1	11	5	3	1	..	81	58	23	...
Inmates of same. ....	111	1	21	..	..	12	..	135	67	68	...
Assignment Houses .....	..	..	..	..	..	..	..	14	14	..	...
Prostitutes in Rooms .....	50	14	12	8	..	..	..	84	62	22	...
Gambling Houses .....	12	1	..	4	..	..	..	17	10	7	...
Common Gamblers .....	17	..	1	..	..	12	..	19	17	2	...
Thieves and Suspicious Pers'ns	30	79	24	43	13	3	4	146	152	..	6
Resorts for Thieves .....	20	..	5	..	..	..	1	26	13	13	...

OFFENSES.

STATE.

	MALES.	FEMALES.	TOTAL.
Abusing Officer .....	4	..	4
Adultery .....	1	..	1
Arson .....	..	1	1
Assault and Battery .....	20	35	55
"    Threatening .....	1	..	1
"    with Intent to Kill .....	1	..	1
"    "    "    Rape .....	1	..	1
"    "    "    Rob .....	1	..	1
"    "    "    Wound .....	1	..	1
Assaulting Officer .....	1	..	1
Attempt to Murder .....	1	..	1
Body Snatching .....	4	..	4
Breaking into Railroad Car .....	1	..	1
Burglary .....	15	..	15
"    and Larceny .....	15	..	15
Buying and Receiving Stolen Property .....	15	..	15
Carrying Concealed Weapons .....	1	1	2
Challenging Another to Fight .....	1	..	1
Contempt of Court .....	..	3	3
Counterfeiting .....	1	..	1

OFFENSES—STATE—*Continued.*

	MALES.	FEMALES.	TOTAL.
Cruelty to Animals .....	24		24
"    "    Children .....	3	3	6
Cutting with Intent to Wound .....	10	1	11
Destroying Property .....	98	10	108
Drunk .....	33	8	41
Embezzlement .....	21	1	22
Exhibiting Obscene Model .....	1		1
Forgery .....	9		9
Fornication .....	2	1	3
Fugitives from Justice .....	11	1	12
Gambling .....	54		54
Grand Larceny .....	53	8	61
Horse Stealing .....	11		11
House Breaking .....	14		14
Maiming .....	1		1
Murder .....	3		3
Obstructing Officer .....	21	7	28
Obtaining Goods by False Pretenses .....	6	5	11
"    Money by " .....	24	1	25
Passing Counterfeit Money .....	3	1	4
Personating Officer .....	2		2
Petit Larceny .....	319	66	385
Provoking a Breach of the Peace .....	3		3
Rape .....	5		5
Receiving Stolen Property .....	11	2	13
"    and Secreting Stolen Property .....	2	1	3
Refusing to Assist Officer .....	1		1
Removing Body from Grave .....	3		3
"    Corpse "    " .....	6		6
Resisting Officer .....	25	1	26
Robbery .....	8		8
Secreting Body .....	10		10
"    Corpse .....	2		2
Seduction .....	2		2
Shooting with Intent to Kill .....	2		2
"    "    "    "    Wound .....	2		2
Stabbing "    "    "    " .....	1		1
Threatening in a Menacing Manner .....	2	1	3
Violating Railroad Law .....	64		64
"    Pawn Broker Law .....	1		1
"    Liquor Law .....	10		10
"    Street Railroad Law .....	2		2
Wrongfully Using Animal .....	6	3	9
Total .....	1,227	162	1,489

## OFFENSES.

## CITY.

	MALES.	FEMALES.	TOTAL.
Abusing Family .....	65	1	66
Careless Driving .....	12		12
Common Beggar .....	17		17
"    Prostitute .....		29	29
Disorderly conduct .....	418	53	491
Disturbance.....	509	25	584
Drunk, ..	2,203	297	2,500
Fast Driving.....	12		12
Habitual Drunkards.....	5		5
"    Disturber of the Peace. ....	5	8	13
Immoral Conduct.....	4		4
Incorrigible Conduct.....	50	10	60
Indecent Conduct.....	42	26	68
"    Exposure of person .....	9		9
Keeping Assignment House.....	1	1	2
"    Disorderly .....	10	3	13
"    Gambling .....	11		11
"    House of Ill Fame.....	10	44	54
Lewd Behaviour.....	12		12
Residing in House of Ill Fame .....	7	91	98
Shooting in City Limits..	1		1
Suspicious Persons .....	194	9	203
Vagrancy .....	243	17	260
Violating Bathing Ordinance.....	51		51
"    Billiard .....	16		16
"    Bootblack .....	31		31
"    Bridge .....	26		26
"    Cab .....	37		37
"    Concert Saloon Ordinance.....	1		1
"    Cemetery .....		2	2
"    Dog .....	39	4	43
"    Dray .....	1		1
"    Exhibition .....	12		12
"    Express .....	34		34
"    Fire .....	4	1	5
"    Firearms .....	10		10
"    Hay .....	4		4
"    Health .....	48	1	49
"    Hitching .....	3		3
"    Hotel Runner .....	3		3
"    Intelligence and Emp. Ordinance.....	1		1
"    Junk Ordinance .....	8		8
"    Kite and Ball Ordinance.....	14		14
"    Market .....	23	3	26
"    Milk .....	12		12
"    Music .....	3	1	4
"    Park .....	11		11
"    Peddler .....	32	1	33
"    Pound .....	27	6	33
"    Property .....	53		53
"    Public Resort .....	12		12
"    Railroad .....	7		7

OFFENSES—CITY—Continued.

	MALES.	FEMALES.	TOTAL.
Violating Sidewalk Ordinance .....	23		23
“ Street “ .....	10	1	11
“ Street Railroad Ordinance .....	10	1	11
“ Sunday Liquor “ .....	10	1	11
“ Walter Girl “ .....	10	1	11
“ Water Works “ .....	10	1	11
“ Weights and Measure Ordinance .....	10	1	11
Visiting Assignation House .....	124	13	137
“ House of Ill Fame .....			
MISCELLANEOUS.			
Insane .....	4		4
Total.....	4		4

RECAPITULATION.

	MALES.	FEMALES.	TOTAL.
Violation State Laws...	1,327	122	1,449
Violation City Ordinances .....	4,225	133	4,358
Miscellaneous .....	4		4
Total .....	5,556	255	5,811



## OCCUPATIONS.

OCCUPATION.	No.	OCCUPATION.	No.
Actors.....	13	Cigar Dealers.....	2
Agents.....	61	Cigar Makers.....	38
Apprentices.....	1	Civil Engineers.....	1
Artists.....	3	Clerks.....	140
Auctioneers.....	4	Clothiers.....	2
Awning Makers.....	1	Coachmen.....	11
Axe Makers.....	2	Coal Dealers.....	3
Bakers.....	31	Coffin Makers.....	2
Barbers.....	48	Collectors.....	3
Bartenders.....	34	Commission Merchants.....	1
Basket Makers.....	13	Conductors.....	2
Base Ball Players.....	4	Confectioners.....	8
Beggars.....	8	Constables.....	2
Beer Peddlers.....	2	Contractors.....	10
Bell Boys.....	1	Cooks.....	28
Bell Hangers.....	1	Coopers.....	16
Blacksmiths.....	80	Coppermiths.....	1
Boatmen.....	31	Copyists.....	1
Boarding House Keepers.....	4	Cork Makers.....	1
Boiler Makers.....	48	Dancing Masters.....	2
Bolt Makers.....	3	Dentists.....	2
Book Binders.....	8	Detectives.....	1
Book Keepers.....	19	Distillers.....	1
Bootblacks.....	66	Doctors.....	22
Bottlers.....	4	Draymen.....	4
Box Makers.....	1	Dressmakers.....	9
Brass Finishers.....	3	Drivers.....	1
Brass Moulders.....	1	Druggists.....	5
Brakemen.....	33	Editors.....	4
Brewers.....	17	Electrotypers.....	1
Brick Layers.....	20	Engineers.....	40
Brick Makers.....	5	Errand Boys.....	3
Bridge Builders.....	7	Expressmen.....	52
Broom Makers.....	1	Express Messengers.....	1
Brothel Keepers.....	21	Farmers.....	192
Brush Makers.....	5	Fence Builders.....	3
Builders.....	2	File Cutters.....	2
Butchers.....	105	File Grinders.....	1
Cabinet Makers.....	24	File Makers.....	1
Capitalists.....	1	Finishers.....	10
Captains.....	4	Firemen.....	22
Car Drivers.....	7	Fish Dealers.....	4
Carpenters.....	121	Fishermen.....	1
Carpet Cleaners.....	1	Fish Peddlers.....	11
Carriage Makers.....	3	Florists.....	2
Carriage Painters.....	3	Foremen.....	3
Carvers.....	2	Fortune Tellers.....	1
Cash Boys.....	1	Foundrymen.....	12
Cattle Dealers.....	2	Frame Makers.....	6
Caulkers.....	3	Fruit Dealers.....	3
Chair Makers.....	2	Gas Fitters.....	3
Cheese Dealers.....	1	Gamblers.....	18
Chimney Sweeps.....	3	Gardeners.....	17

OCCUPATIONS—*Continued.*

OCCUPATION.	NO.	OCCUPATION.	NO.
Glass Blowers.....	1	Nut and Bolt Makers.....	7
Glaziers.....	1	Oculists.....	2
Glue Manufacturers.....	1	Office Boys.....	1
Grainers.....	5	Oil Dealers.....	3
Grinders.....	2	Oil Refiners.....	7
Grocers.....	12	Operators.....	5
Grooms.....	4	Painters.....	124
Hackmen.....	100	Paper Hangers.....	11
Harness Makers.....	12	Paper Manufacturers.....	1
Hatters.....	11	Patent Rights Men.....	3
Heaters.....	5	Pavers.....	2
Helpers.....	1	Pawn Brokers.....	2
Herdsmen.....	4	Peddlers.....	14
Hoopers.....	2	Performers.....	2
Horsemen.....	8	Photographers.....	2
Horse Jockeys.....	1	Piano Tuners.....	1
Horse Shoers.....	7	Pilots.....	2
Horticulturists.....	2	Planers.....	2
Hostlers.....	52	Plasterers.....	14
Hose Makers.....	1	Plumbers.....	26
Hotel Keepers.....	8	Polishers.....	2
Housekeepers.....	483	Porters.....	15
House Movers.....	3	Postmasters.....	1
Hucksters.....	16	Potters.....	1
Ice Dealers.....	1	Pound Keepers.....	5
Ice Peddlers.....	3	Preachers.....	1
Iron Workers.....	6	Pressmen.....	1
Janitors.....	13	Printers.....	74
Jewelers.....	6	Private Watchmen.....	27
Joiners.....	1	Prostitutes.....	20
Junk Dealers.....	10	Puddlers.....	9
Laborers.....	1,138	Quarrymen.....	8
Lathers.....	5	Rag Peddlers.....	6
Laundresses.....	4	Rag Pickers.....	4
Laundrymen.....	6	Railroad Men.....	110
Lawyers.....	19	Real Estate Agents.....	2
Lead Workers.....	4	Reporters.....	2
Lecturers.....	1	Restaurant Keepers.....	1
Letter Carriers.....	1	Rivet Heaters.....	1
Liquor Dealers.....	8	Rolling Mill Men.....	150
Lithographers.....	2	Roofers.....	17
Livery Keepers.....	5	Sailors.....	28
Liverymen.....	4	Sail Makers.....	1
Locksmiths.....	1	Salesmen.....	19
Lumber Dealers.....		Saloon Keepers.....	203
Machinists.....	94	Sash Makers.....	3
Manufacturers.....	5	Saw Makers.....	1
Marble Cutters.....	6	Sawyers.....	1
Masons.....	31	School Boys.....	303
Mechanics.....	7	School Girls.....	16
Merchants.....	34	Scroll Sawyers.....	1
Milk Peddlers.....	9	Sculptors.....	1
Millers.....	34	Seamstresses.....	5
Milliners.....	3	Servants.....	50
Millwrights.....	2	Sewer Builders.....	1
Miners.....	6	Sewing Machine Men.....	1
Missionaries.....	1	Ship Carpenters.....	5
Moulders.....	84	Shoemakers.....	107
Musicians.....	18	Shooting Gallery Keepers.....	2
Nail Makers.....	7	Shop Lifters.....	2
News Agents.....	4	Showmen.....	6
News Boys.....	18	Slaters.....	1
No Occupation.....	442	Soap Manufacturers.....	5

OCCUPATIONS—*Continued.*

OCCUPATION.	No.	OCCUPATION.	No.
Soldiers.....	7	Tobacconists.....	1
Spar Makers.....	1	Tool Makers.....	3
Spinners.....	1	Tourists.....	1
Spring Makers.....	8	Traders.....	1
Steel Workers.....	1	Tramps.....	1
Stevedores.....	2	Trimmers.....	1
Stewards.....	1	Trunk Makers.....	1
Stokers.....	1	Tugmen.....	1
Stone Cutters.....	32	Turners.....	1
Stone Masons.....	5	Undertakers.....	1
Store Keepers.....	9	Upholsterers.....	2
Stove Mounters.....	7	Veterinary Surgeons.....	1
Students.....	9	Wagon Makers.....	18
Superintendents.....	4	Waiters.....	42
Switch Tenders.....	1	Washerwomen.....	1
Tailors.....	43	Wax Finishers.....	1
Tailoresses.....	2	Weavers.....	1
Tanners.....	13	Well Diggers.....	17
Teachers.....	5	Wheelwrights.....	1
Teamsters.....	186	Whitewashers.....	14
Telegraph Operators.....	2	Wire Workers.....	35
Thieves.....	27	Wool Manufacturers.....	1
Threshers.....	2		
Tinkers.....	12		
Tinsmiths.....	38		
		Total.....	7,151

## NATIVITY.

No.	No.
Australia. ....	1
Austria .....	6
Bavaria .....	1
Belgium .....	2
Bermuda Islands .	1
Bohemia.. .....	158
Canada .....	216
China .....	2
Cuba.....	1
Denmark .....	2
England.....	300
France.....	30
Germany.....	828
Greece.....	4
Hanover .....	1
Holland.....	7
Hungary.....	21
Ireland.....	1,328
Isle of Man.....	9
Italy.....	22
New Brunswick.....	3
Newfoundland .....	3
Norway .....	4
Poland .....	22
Prince Edward's Island.....	1
Russia.....	11
Saxony.....	1
Scotland.. ..	101
South America...	1
South Wales .....	1
Spain .....	1
Sweden.....	11
Switzerland .....	22
United States.....	3,870
Wales .....	59
West Indies.....	1
Total.....	7,151

MONTHLY STATEMENT OF ARRESTS.

MONTH.	Social Cond'n.		Educa- tion.		Sex.		Males.		Females		Color.	
	Married.	Single.	Read and Write.	Unable.	Males.	Females.	Males Married.	Males Single.	Females Married.	Females Single.	White.	Colored.
January.....	14	247	339	3	33	3	133	120	10	22	33	13
February.....	173	137	355	43	350	3	149	151	10	22	33	13
March.....	216	133	472	19	433	3	173	122	14	22	33	13
April.....	153	400	373	11	331	13	124	127	14	22	33	13
May.....	155	412	324	11	331	13	121	127	14	22	33	13
June.....	153	314	473	11	331	13	121	127	14	22	33	13
July.....	304	461	670	13	333	109	126	410	14	22	33	13
August.....	313	464	683	13	333	120	123	411	14	22	33	13
September.....	310	383	615	12	333	87	123	333	14	22	33	13
October.....	152	379	564	17	337	74	123	333	14	22	33	13
November.....	150	402	582	40	354	38	120	334	14	22	33	13
December.....	133	256	405	39	339	45	120	220	14	18	22	16
Total.....	2333	4268	6337	314	7256	295	2433	3823	435	450	6003	243

AGES.

MONTH.	Under Ten.	Ten to Fifteen.	Fifteen to Twenty.	Twenty to Thirty.	Thirty to Forty.	Forty to Fifty.	Fifty to Sixty.	Sixty and Over.	Total
January.....	33	12	33	143	24	22	12	9	331
February.....	33	12	41	131	33	22	12	10	333
March.....	33	33	20	123	124	33	12	12	333
April.....	1	33	33	129	164	33	12	15	333
May.....	0	19	103	122	143	33	12	22	333
June.....	33	12	12	177	137	22	12	14	337
July.....	19	33	114	153	164	33	12	12	333
August.....	19	40	130	312	179	22	12	12	333
September.....	4	16	21	123	150	33	12	16	333
October.....	13	23	11	177	127	33	12	12	333
November.....	1	22	23	123	143	33	12	17	333
December.....	0	21	27	144	113	11	12	2	333
Total.....	47	382	988	2,500	1,642	961	402	171	7,151

DISPOSITION OF CASES.

	No.		No.
Bail Forfeited .....	29	Fine and Costs and Work House	573
Bound Over to Court Common		House of Refuge and Correc-	
Pleas .....	98	tion. ....	84
Costs .....	833	Nolle Prosequi. ....	496
Costs and Committed till Paid..	40	Permitted to Leave the City...	3
"    "    Work House.....	8	Remanded to Authorities from	
Costs Divided between Prose-		Abroad. ....	40
cution and Defence.....	16	Remanded to United States Au-	
Discharged .....	40	thorities.....	5
Dismissed .....	499	Sent to Infirmary.....	2
"    At Cost of Prosecu-		Sent to Retreat.....	1
tion. ....	18	Sentenced to the Work House..	16
"    On Payment of Costs.	286	Turned Over to County Sheriff.	2
Fine and Costs .....	2,097	Turned Over to Friends.....	3
"    "    And Committed		Undisposed of.....	26
till Paid.....	1,061		
"    "    And Committed		Total... ..	7,151
to Jail.....	6		
"    "    And House Sup-			
pressed.....	1		

COMMITTED TO WORKHOUSE AND HOUSE OF REFUGE AND CORRECTION.

MONTH.	WORKHOUSE.			HOUSE OF REFUGE AND CORRECTION.			Total Sent to Workhouse and House of Refuge and Correction.
	Males.	Females.	Total W'khouse.	Males.	Females.	Total H. R. & C.	
January...	23	16	39	13	0	13	52
February...	15	13	28	13	0	13	55
March .....	17	18	35	11	1	12	81
April .....	22	17	39	12	1	13	91
May. ....	23	17	40	12	1	13	83
June.....	24	15	39	12	0	12	90
July.....	21	23	44	12	0	12	92
August...	21	22	43	11	1	12	97
September..	22	20	42	13	0	13	93
October ....	24	16	40	13	3	16	78
November..	20	25	45	17	0	17	122
December..	22	13	35	3	1	4	89
Total.....	719	215	934	63	8	71	1,005

LODGERS.

MONTH.	No.	MONTH.	No.
		Brought Forward.	1,389
January.....	314	July.....	26
February.....	316	August.....	30
March.....	438	September.....	84
April.....	114	October.....	206
May.....	147	November.....	289
June.....	60	December.....	307
Forward.....	1,389	Total.....	2,371

FINES AND COSTS COLLECTED.

MONTH.	AMOUNT.	MONTH.	AMOUNT.
		Brought Forward.....	\$ 8,063 80
January.....	\$1,095 29	July.....	1,566 37
February.....	881 11	August.....	1,866 77
March.....	1,422 44	September.....	1,586 66
April.....	1,907 48	October.....	1,286 02
May.....	1,524 60	November.....	1,358 77
June.....	1,222 88	December.....	893 42
Forward.....	\$8,063 80	Total.....	\$16,621 81
Amount Collected by Workhouse Authorities.....			2,826 30
Total Fines and Costs Collected.....			\$19,448 11

## PROPERTY REPORTED STOLEN AND RECOVERED.

MONTH.	STOLEN.	RECOVERED.	PER CENT. RECOVERED.
January.....	\$ 5,084 27	\$ 5,462 00	107.43
February.....	1,556 00	2,052 50	131.72
March.....	1,222 00	469 50	38.42
April.....	1,192 50	1,198 25	100.48
May.....	4,590 75	4,206 00	91.62
June.....	2,519 00	769 25	30.54
July.....	1,507 36	1,208 75	80.12
August.....	1,984 05	555 20	27.98
September.....	1,778 25	2,519 75	141.69
October.....	4,253 75	3,567 25	83.86
November.....	1,944 00	706 00	36.32
December.....	1,741 50	881 50	50.62
Total.....	\$29,373 43	\$23,585 95	
Per Cent. Recovered in 1878.....			80.33
Per Cent. Recovered in 1877.....			79.76
Increase of 1878 over 1877.....			.57

# FINANCIAL STATEMENT.

## POLICE FUND.

Balance January 1, 1879.....		\$19,364 30
Receipts.....		151,245 97
Total .....		\$170,610 36
Disbursed.....	\$155,148 71	
Bills of 1877 paid in 1878.....	2,400 00	
Balance .....	13,061 65	
Total .....		\$170,610 36

## POLICE COURT FUND.

Balance January 1, 1878.....		\$1,823 35
Receipts. . . . .		9,234 86
Total .....		\$11,058 41
Disbursed.....	\$9,342 03	
Balance .....	1,676 38	
Total .....		\$11,058 41

## CONTINGENT FUND.

Balance January 1, 1878. ....		\$ 6,856 87
Receipts to January 1, 1879 .....		4,659 89
Total .....		\$11,516 76
Disbursed to January 1, 1879.....	\$ 5,606 92	
Balance .....	5,909 84	
Total .....		\$11,516 76

## LIFE AND HEALTH FUND.

Balance January 1, 1878. ....		\$3,620 21
Receipts to January 1, 1879.....		832 00
Total .....		\$4,452 81
Disbursed to January 1, 1879 .....	\$ 896 70	
City Note .....	3,000 00	
Cash .....	556 21	
Total .....		\$4,452 81



## LIST OF MERCHANTS' POLICEMEN,

APPOINTED AT REQUEST OF CITIZENS AND COMPANIES, ON DUTY  
DECEMBER 31, 1878.

NAMES.	WHERE STATIONED.	DATE OF APPOINTMENT.
Butler, Frank.	L. S. & M. Ry	Decem'r 19, 1878
Barrett, J. A.	Theatre Comique.	" "
Bucker, C.	Park.	May 2, 1876
Bower, W.	Starkweather Avenue.	" "
Barnes, L. M.	L. S. & M. S. Ry	" "
Baylars, T.	Park	" "
Bousal, S. W.	Euclid Avenue	May 11, 1876
Baker, C. W.	Prospect Street	October 10, 1876
Baker, Wm.	Franklin Avenue	Nov. 2, 1876
Birmingham, T. H.	Kinsman Street Ry.	Dec. 12, 1878
Barnes, A. W.	Saw Mill	May 25, 1877
Burrows, R.	District Telegraph	August 20, 1877
Benethah, D.	Cleveland Rolling Mill Co.	Dec. 21, 1877
Butler, D.	B. M. and Brayton.	June 20, 1878
Cook, H.	Lake Shore Rolling Mill.	" "
Conway, P.	Lake Shore Plate Mill.	" "
Cretor, C. I.	East Cleveland R. R.	" "
Cole, J. E.	Woodland Cemetery	July 18, 1878
Copeland, W. C.	Northern Ohio Lunatic Asylum.	May 6, 1878
Connell, John.	Kinsman Street R. R.	Dec. 14, 1878
Cutler, C. J.	East Cleveland R. R.	Febru'ry 9, 1877
Cumming, A. E.	Kinsman Street R. R.	Dec. 12, 1878
Doyle, T.	Prospect Street	May 3, 1876
Darrel, P.	Willson Avenue	Nov. 23, 1876
Dehandt, C. A.	Brownell and Prospect Streets.	October 8, 1878
Ellis, E.	Superior Street	May 4, 1876
Enwright, P.	Euclid Avenue	Sept. 1, 1876
Elmendorf, I.	Car and Bridge Works	" "
Evans, D.	L. S. & M. S. Ry	" "
Frank, Isaac	Opera House	May 2, 1876
Flannigan, W. J.	Superior Street, S. O.	" "
Flaherty, E.	L. S. & M. S. Ry.	May 3, 1876
Farr, W.	Markets	June 27, 1876
Fay, M.	C. & P. Ry.	March 15, 1877
Francisco, J. W.	Private Detective.	Dec. 31, 1878
Gilchrist, J.	Co-Operative Stove Co.	May 2, 1876
Gibbons, E.	Superior and Long Streets	" "
Gilroy, J.	A. & G. W. Ry	May 5, 1876
Gumboch, Geo.	Co-Operative Stove Co.	May 9, 1876
Glom, T. D.	Euclid and Willson Avenues.	" "
Gray, N.	Cleveland Rolling Mill Co.	Nov. 7, 1878
Henry, Geo.	Cleveland Provision Co.	May 2, 1876
Harrigan, J.	Northern Transit Co.	" "
Halloran, P.	Water Street.	" "
Hickson, J.	City Hall	" "
Houghton, S. B.	Northern Ohio Lunatic Asylum.	May 6, 1876
Hill, Henry.	Clinton Park.	" "
Herbert, J.	Andrews, Hitchcock & Co.	May 19, 1876
Harris, C. W.	L. S. & M. S. Ry.	June 28, 1878
Hilley, H.	East Cleveland Ry.	July 18, 1877
Henrichs, H.	Euclid Avenue	July 3, 1877
Hansen, C.	A. & G. W. Ry.	October 8, 1877
Haver, G. A.	Gatling Gun Armory	August 3, 1878
Hedron, J.	Sterling's Pipe Works	May 2, 1876
Jennings, R. A.	Euclid Avenue	" "
Johnson, J.	Pearl Street	May 3, 1876

LIST OF MERCHANTS' POLICEMEN—*Continued.*

NAMES.	WHERE STATIONED.	DATE OF APPOINTMENT.	
Johnson, J	Merwin Street	May	5, 1876
Jones, J. H.	Eighteenth Ward.	Dec.	28, 1876
Koehler, H.	C. & P. Ry	May	5, 1876
Koehler, J. H.	Rockwell and St. Clair Streets	May	8, 1876
Kilpatrick, T. J.	Bond, Seneca and St. Clair.	Sept.	16, 1876
Kuntzlemaun, G.	Brewers.	April	26, 1878
King, E	King Bridge Co.	Janu'ry	1, 1878
Maher, Wm	Prospect and Perry Streets	Sept.	12, 1878
Murphy, Wm.	Shovel Works.	"	"
Mulvey, J.	C. & P. R. R. Shops	"	"
Miller, H.	East Cleveland R. R.	"	"
Malbouer, H	District Telegraph Co.	April	28, 1876
Morison, W. D	Woodland Cemetery	October	3, 1877
Metser, H	C. & P. R. R	"	"
Preble, Chas	Ontario Street	May	4, 1876
Ponnitzky, A	Co-Operative Stove Co	May	9, 1876
Peterson, J.	East Cleveland R. R. Co.	"	"
Pecord, F. C.	Haltnorth's Garden	June	15, 1878
Prayer, R.	District Telegraph Co.	April	17, 1877
Prentiss, W. C	Cleveland Rolling Mill Co.	Dec.	12, 1877
Robinson, G. E.	Kinsman Street R. R	Dec.	12, 1878
Rome, Thos.	Infirmiry	August	5, 1878
Roloff, C.	A. & G. W. R. R	May	3, 1876
Reeves, F.	Co-Operative Stove Co.	May	9, 1876
Ricker, F.	East Cleveland Ry	May	11, 1876
Riblet, D.	Third Precinct Station.	June	12, 1876
Smith, J.	Franklin Park.	May	2, 1876
Sherman, E. A	Prospect Street.	May	3, 1876
Sechrist, C	L. S. & M. S. Ry.	"	"
Stephen, J.	East Cleveland Ry.	May	11, 1876
Stephen, A.	Broadway.	June	6, 1876
Sexton, D.	N. O. Fair Grounds.	August	30, 1876
Schafer, A	East Cleveland Ry.	Dec.	4, 1878
Smithenberger, F.	Monroe Street	Oct.	3, 1877
Schneider, J	Car and Bridge Works.	"	"
Tubbs, S. C.	Prospect and Ontario Streets.	May	2, 1876
Tursier, R. H.	Prentiss & Co.	May	19, 1876
Whalen, W. H.	Ontario Street and Market.	May	5, 1876
Wondersleven, Wm	East Cleveland Ry	May	11, 1876
Weinman, C. P.	District Telegraph Co.	April	16, 1877
Wagner, A.	Euclid Avenue	Dec.	11, 1878

ANNUAL REPORT

OF

The Telegraph Department,

FOR THE

YEAR ENDING DECEMBER 31ST, 1878.



# REPORT OF TELEGRAPH DEPARTMENT.

CLEVELAND, O., January 1, 1879.

*To the Honorable Board of Police Commissioners:*

GENTLEMEN—The following messages have been transmitted over the wires of the Police Telegraph Department during the year ending December 31, 1878 :

MONTHS.	MESSAGES SENT.	MESSAGES RECEIVED.	TOTAL.	AVERAGE PER DAY.
January.....	683	129	812	26 <sup>8</sup> / <sub>31</sub>
February.....	584	140	724	23 <sup>9</sup> / <sub>28</sub>
March.....	665	93	758	24 <sup>11</sup> / <sub>31</sub>
April.....	653	100	753	25 <sup>10</sup> / <sub>30</sub>
May.....	699	150	849	27 <sup>11</sup> / <sub>31</sub>
June.....	600	85	684	23 <sup>10</sup> / <sub>30</sub>
July.....	585	70	655	20 <sup>11</sup> / <sub>31</sub>
August.....	620	92	712	23 <sup>11</sup> / <sub>31</sub>
September.....	579	103	682	22 <sup>11</sup> / <sub>30</sub>
October.....	684	117	801	26 <sup>11</sup> / <sub>31</sub>
November.....	620	107	727	24 <sup>10</sup> / <sub>30</sub>
December....	703	105	808	26 <sup>11</sup> / <sub>31</sub>
Total.....	7,673	1,291	8,964	24 <sup>104</sup> / <sub>365</sub>

The Police wires, under the supervision of Mr. H. H. Rebbeck, have been kept in good working order.

Respectfully submitted.

EMIL F. SCHULTZ,  
*Headquarters.*

## CONCLUSION.

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The year that is covered by this Report has not been prolific of any extraordinary work other than that incident to the repression and capture of the ordinary violators of laws and ordinances. But a careful perusal of these statistics will convince the Honorable City Council that the city has been well guarded and served by its Police and Health Force.

There have been no serious outbreaks or movements calling for more than ordinary precaution, and while this Report shows over seven thousand arrests, they are mainly those that usually obtain in a city with our population.

We take pleasure in calling attention to the Financial Statement. It will be seen that the cost of maintaining Police and Health Departments has been reduced from 1877, and careful economy exercised in providing for the ordinary expenses. The funds controlled by the Board are in good condition, and the larger part invested so as to produce a revenue.

In order to give the Honorable City Council an opportunity to compare the cost, efficiency and usefulness of the Cleveland Police Department with that of several other cities, the following tables have been prepared, that exhibit clearly the large territory covered by our small force, the number of population protected by each member of the Force, the expense of maintaining each policeman, and the cost per capita of population for each man:

CITIES.	Population.	Area in Square Miles.	Strength of Force.	Pay of Patrolman	Annual Cost.
New York .....	1,070,000	23	2,560	\$1,200 00	\$3,500,000 00
Philadelphia .....	817,448	65	1,202	912 00	1,437,546 40
Chicago.. .....	500,000	38	516	850 00	534,842 78
Brooklyn.. .....	484,616	21	624	1,100 00	777,462 00
St. Louis.....	450,000	23	457	900 00	512,313 00
Boston .....	375,000	15½	700	1,065 00	814,941 00
Baltimore .....	305,000	14½	574	938 00	582,000 00
New Orleans .....	210,000	26	568	1,000 00	624,000 00
Washington.....	120,000	27	242	1,080 00	325,000 00
Cleveland. ....	165,000	28	161	756 00	157,548 71

CITIES.	Men to Sq're Mile of Territory.	Number of Population to Each Policeman.	Expenditure per Man of Force.	Exp'diture Per Capita of Populat'n.
New York.....	111 3	418.0	\$1,367 18	\$3 27
Philadelphia .....	19.9	632.7	1,112 65	1 75
Chicago .....	13 6	939.0	1,036 52	1 07
Brooklyn .....	29.7	776.6	1,245 93	1 60
St. Louis.....	19.9	984 7	1,121 04	1 14
Boston .....	45.2	535.7	1,164 20	2 17
Baltimore .....	30.6	531.3	1,013 94	1 90
New Orleans .....	21.8	360 7	1,008 59	2 97
Washington.....	9.0	495.0	1,342 98	2 70
Cleveland .....	5.8	902 7	963 65	1 00

The following table shows the amount of property reported stolen and amount recovered, making over 80 per cent. recovered, an amount not equaled by our force in any year previous, or by any other city in the Union for the year 1878. These figures attest the vigilance, ability and industry of the detectives as well as the regular force:

### PROPERTY REPORTED STOLEN AND RECOVERED FOR FIVE YEARS.

YEAR.	STOLEN.	RECOVERED.	PER CENT. RECOVERED.
1874 .....	\$35,550 83	\$17,856 57	50.75
1875 .....	50,100 77	29,273 35	58.41
1876 .....	34,762 72	24,055 22	69.20
1877 .....	37,677 97	30,052 60	79.78
1878 .....	29,731 43	23,595 95	80.33

### COST OF POLICE AND HEALTH DEPARTMENTS FOR THE PAST SIX YEARS.

YEAR.	FUND.	AMOUNT.	TOTAL.
1873 .....	Police .....	\$158,200 18	
1873 .....	Health .....	23,416 14	
			\$181,715 32
1874 .....	Police .....	\$162,770 28	
1874 .....	Health .....	25,036 58	
			187,806 85
1875 .....	Police .....	\$168,302 68	
1875 .....	Health .....	19,540 38	
			187,842 06
1876 .....	Police .....	\$152,508 30	
1876 .....	Health .....	16,168 05	
			168,676 35
1877 .....	Police .....	\$149,450 33	
1877 .....	Health .....	14,106 11	
			163,556 44
1878 .....	Police .....	\$145,134 53	
1878 .....	Health .....	12,414 18	
			157,548 71



Finally the Board take a just pride in commending this report and accompanying statistical tables to the consideration of the Honorable City Council and citizens generally, confident that a perusal will convince all that the affairs of the two departments under its charge have been economically and faithfully administered.

The Board have endeavored to maintain a high state of discipline in the Force, and the laudable manner in which duty has been performed attests the success of their efforts in this direction; the character and ability of the men appointed during the year are evidence of the care exercised in their selection; the decreased cost of maintaining the two departments; the increased percentage of property recovered; the numerous convictions of criminals; the number of fugitives from justice secured and turned over to officers from other cities; the success that has attended efforts in ferreting out crime; the protection afforded citizens scattered over nearly thirty miles of territory, and four hundred and twenty-four miles of streets and alleys, by one hundred and sixty-one men, giving but 5.8 men to each square mile, all furnish evidence that the men and officers are entitled to the gratitude and commendation, not only of the Board, but the citizens, for their devotion to duty, as well as their success in discharging obligations incurred when placed upon the rolls of the Force.

All of which is respectfully submitted.

By order of the Board,

GEO. G. MINOR, *Secretary.*



A REPORT  
OF THE  
**Health Department,**

MADE TO THE  
BOARD OF POLICE COMMISSIONERS

OF THE  
CITY OF CLEVELAND, OHIO,

FOR THE  
YEAR ENDING DECEMBER 31ST, 1878.

BY  
*GUY B. CASE, M. D., Health Officer*



# REPORT

OF THE

## HEALTH DEPARTMENT.

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*To the Honorable Board of Police Commissioners:*

GENTLEMEN :—I have the honor to submit to you the following Annual Report of the Health Department for the year ending December 31st, 1878:

There were 2,710 deaths from all causes. This shows a mortality less than that of the past few years. In 1875 there were 2,962; in 1876 there were 3,227, and in 1877 there were 2,903 deaths. 2,710 deaths in a city of this size make a death-rate of 16.72 in a thousand. This is an excellent record, as 17 in a thousand is about the standard that can generally be attained by careful sanitary supervision. Our death-rate is therefore, 28 below even what is considered to constitute a healthy city. As the population has not at all decreased, but quite the reverse, as calculated from the City Directory, the diminished number of deaths must be accepted as proof positive of greater health in the community.

### DIPHTHERIA.

Diphtheria has attracted the most attention, and is of the greatest importance on account of the number of deaths and of the greatest interest because it is classed as a zymotic or preventable disease.

There was a total of 376 deaths, which is the largest number from any one cause. There were 456 cases reported. This would indicate a great fatality if the number of cases reported is correct; but it is very far below the actual number that existed. It is impossible to secure complete returns, as some physicians neglect to report at all, and others only the severe cases. The deaths from diphtheria for three years have aggregated 1,194; the following table gives the years and months in which they occurred:

DEATHS FROM DIPHTHERIA FOR THE PAST THREE YEARS.

	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Tot'l for Year	Total for the Last 4 Mos.
1876.....	41	22	24	16	7	7	12	13	58	62	82	64	408	288
1877.....	20	40	29	16	11	19	10	19	36	75	90	45	410	246
1878.....	20	17	14	10	14	8	19	34	65	79	62	34	376	240
Total .....	81	79	67	42	32	34	41	66	159	216	234	143	1,194	752

It is thus seen that this disease is most prevalent in this city in the Fall, and that this season it came on earlier and more violently than ever. When the disease became so prevalent it at once received the attention of the Health Department. Efforts were made to diminish it as much as possible by recommending isolation and by removing all apparent causes in the form of filth. A sanitary policeman was sent, wherever a case was reported, to examine the condition of the house and premises, to abate any nuisances which might exist, to secure as clean surroundings, as possible, to offer advice concerning the separation of the sick from the well and to give directions about the use of disinfectants. Each case was also reported by the Health Department to the Superintendent of the Public Schools, who immediately made a careful search through the schools for members from the family where diphtheria was reported, and if any such were found

they were sent home and not again allowed to attend school till it was declared safe by a physician's certificate. The interest which the Superintendent manifested in this matter and the diligence with which he carried out the plan prescribed is worthy of all praise. There was a slight tendency on the part of some to criticise, saying that the public were being unnecessarily frightened, and that the course pursued in regard to the public schools was detrimental to the same, and was extreme, many children being kept at home when there was no need of it. It is my opinion that the plan adopted was the correct one, even though there might have been mistakes committed in particular instances. The truth is, the error was in not making the plan more comprehensive, so as to prevent inmates from infected houses from attending Sunday schools and other gatherings for children. The difficulty is that the city officials cannot so readily supervise private schools as they can the public schools, and hence, whatever rule might be made there would be many obstacles to its enforcement.

A little anxiety on this subject in the minds of parents has a salutary effect. It stimulates them to watch carefully their children, to keep their houses clean and free from offence, and prevents them from permitting their children to visit houses where the disease exists.

As to whether or not the efforts made had any controlling influence on the late epidemics I will not venture an opinion, but the above table shows these facts: That it came on with greater severity this fall than ever before, the mortality in September and October being greater than in the same months in other years.

Heretofore the disease has continued to increase during the Fall, November being the month of the greatest number of deaths. This is what we had a right to expect this year, but instead, we find that in November it very decidedly declined and continued to do so till the end of the year, to such an extent that not only are the total deaths less

than they have been for the other years, but that the deaths from September 1st to December 31st are fewer than they have been in the same period in the other years.

Of the fatal cases which occurred during the last four months, 186 were investigated by the officers of this Department. These investigations have in each case been reported in writing, and this was done with the view of gaining some information if possible on the causes of the difficulty. The examinations related to the sewer advantages, the kind of water used, the overcrowding of houses, as to whether the house and cellar was dry or damp, clean or filthy, any connection which the removal of night soil might have, and the general sanitary condition of the premises and surroundings. It was found that of the 186 cases, 144 used well water, 40 lake water and 2 spring water; thus nearly four-fifths used well water. This proportion is larger than it should be, providing that the quality of the water drank had nothing to do with the disease, as it is estimated by the officers of the Water Works that from 54,000 to 60,000 people of the city drink lake water, that is a little more than one-third, leaving a little less than two-thirds who use well water. The argument, however is not conclusive, *first*, because in the localities where well water is used there are other unfavorable conditions which might operate to produce diphtheria, and *second*, because the water was not analyzed, but in a number of instances there were good grounds for supposing that the water was impure.

In only 15 were there sewer connections, and in 171 there were none. Of the 186 cases in only 65 could anything be found in the sanitary conditions and surroundings to explain the occurrence of the disease; in the other 121 no cause was apparent. Of the 65 cases that seemed to be explainable, some were attributable to contagion; in 25 there was a filthy condition of the house or yard; in 10 there was dampness of the house or cellar, water in some of the latter; in 7 there



was overcrowding ; in 6 there were objectionable cisterns under the kitchen ; in 5 there were cesspools in bad condition, and in 3 imperfect ventilation. Among other supposed causes was that of throwing out the house refuse into the yard ; one instance of a mother laying out a friend's child dead with the disease ; a broken sewer ; proximity of a pond of filthy water, and other causes of not sufficient importance to mention. In regard to the removal of night soil I am unable to present any figures of value, still the poisoning of the air which at times occurs from this source is without doubt responsible for a part of the diphtheria, hence another reason for the substitution of sewer connections for vaults. The exact extent of the relation existing between diphtheria and filth has not yet been fully and satisfactorily determined. The disease being so prevalent in this city, to say that it is almost exclusively due to filth would seem to lead to the conclusion that Cleveland is a filthy city, which is not so. There must be other factors in the causation of the disease, which are as yet unknown. It is a matter of the greatest moment that the cause be ascertained. The problem can only be solved by close and patient research, which it is sincerely hoped the future will accomplish.

There can be no doubt but what the sub-soil dampness in certain portions of the West Side has been an active cause in the production of the disease in that locality, and it can only be corrected by proper drainage.

**SCARLET FEVER.**—There were 74 cases reported and 31 deaths.

**MEASLES.**—There were no deaths from measles during the year.

**CONSUMPTION.**—Consumption of the lungs ranks second as a cause of mortality, there being 245 deaths.

## DEATHS FROM ENTERING A CESSPOOL.

During the month of May four deaths occurred which deserve special notice, having been caused by an accident of unusual occurrence, and it is therefore proper that the particulars be preserved in the records of this Department. They resulted from entering a cesspool, and the facts elicited by the Coroner's inquest went to prove that death was caused, not by suffocation or absence of pure air alone, but by poisonous gases generated therein.

It had not been opened for a number of months and the gases had become so concentrated as to prove fatal in a few seconds. The cesspool was nine feet deep, eight feet long and four feet wide. It was planked all around, also covered with planking over which were eight inches of dirt. It was separated from a privy vault by about four feet of bank, but connected with it by a log through which was a two-inch hole. This hole had been closed up for some time, so that the cesspool was cut off from all connection with the outer air except at a small opening where the waste water was poured in. There was, therefore, no ventilation. The vault, on the contrary, was tolerably well ventilated, having a good-sized and tall chimney, and in other respects in a fair sanitary condition. The cesspool was used by three or four families and contained eight or nine inches of water. The vault had become pretty well filled with water from recent rains.

On the evening of May 27th Christoff Guise, who resided at 22 Grove street, the scene of the accident, decided to open the hole between the cesspool and the vault for the purpose of letting off the surplus water from the latter. He removed one of the planks from the top, making an opening about four and a half feet long by fifteen inches wide. Through this he put down a ladder on which he descended into the cesspool. He drew out the plug which was in the hole leading to the vault, whereupon, according to the man's statement, there was a rush of gas; that this made him dizzy, so

that he could not ascend the ladder although he attempted to do so, and called for help. He experienced great roaring in his ears, became unconscious and knew nothing more till he found himself in bed. In the meantime a man by the name of Williams came to his rescue. He descended and raised Guise up, so that two men at the top were able to pull him out. They then turned to help Williams, but just in time to see him fall backward from the ladder apparently dead. Another man then went down, but ere he could accomplish anything he fell dead. A fourth man also went immediately into the cesspool, but met with the same fate.

These three men lay in this hole from half to three-quarters of an hour, when some one volunteered to go in to get them out. The opening was enlarged so as to measure  $4\frac{1}{2}$  by 3 feet. A rope was put around him and he brought out one man at a time, and then descended the fourth time to make certain that there was no other body remaining in the pool. This man accomplished this without experiencing any serious effects, although it was with great difficulty that he could breathe while in the hole.

Christoff Guise, who was the first who went in, and who was rescued before life was extinct, survived about forty hours, and died with symptoms similar to those indicative of a typhoid condition.

From a careful study of the facts, it is reasonable to conclude that the vault had little or nothing to do with these sad results; but that the cesspool contained the poisonous gas, and that the liquid and mud, upon being disturbed, also gave off the sewer gases with which they were saturated. That these gases had become very concentrated is proven by the quickness with which they produced death, moreover the stench could be recognized two hundred yards distant.

These gases probably consisted of sulphuretted hydrogen with the addition of sulphide of ammonium; the former being the one which, it is believed, produced the fatal result.

There are several points in connection with this affair which it is well to remember: 1st. It demonstrates how poisonous a cesspool or sewer may become by being sealed up, and hence the great necessity of proper ventilation for affording escape to gases as they are generated. 2nd. It shows that not only receptacles of night soil may produce destructive gases, but that accumulations of waste water and material from the kitchen and other parts of the house may also evolve equally dangerous products. This is acknowledged by sanitarians, but a large number of the people seem to think that it is a matter of little consequence how dirty water is disposed of. 3rd. It should make the men whose business it is to clean filth receptacles exercise due caution lest they fall victims to the same kind of poison. It is well to bear in mind the following remarks: \* "A mere feculent odor is not necessarily injurious, nor is there much danger to be apprehended from sewers where the supply of water is liberal. Previously to emptying cesspools, privies, sewers, and the like, they should be well stirred up, as otherwise the escape of noxious vapors may take place as soon as the removal of soil commences. It is not enough to find that a candle will burn in the atmosphere of a cesspool, because even then it may be dangerously charged. Further (and this is also true in the case of vaults), they should, before entry, be freely exposed to the air, an active combustion set up, and chlorine generated in them, for two or three days before the men are allowed to enter."

#### SMALL-POX.

Among the pleasant things to report is the entire absence of small-pox. This is the first time that this has occurred since the death records of the city have been kept, and it is to the well-directed efforts of the Health Department that the people of Cleveland are indebted for the absolute freedom from this loathsome disease.

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\*Forensic Medicine and Toxicology, by Woodman & Tidy.

Vaccination forced upon all classes, and gratuitously furnished to the poor, has brought about this favorable result.

Not a case of either small-pox or varioloid has been reported since September 8, 1877. How gratifying is this when compared with 212 cases reported in 1874, of whom 51 died.

Nor is it because Cleveland has not been exposed to infection, inasmuch as the disease has existed in some of the neighboring cities and could easily have been brought here.

It is among the lower and poorer classes, especially foreigners, that vaccination is most neglected, and hence where small-pox is most likely to break out. To ward against this, the District Physicians are instructed to pay special attention to the vaccination of the poor who come under their care, and are provided at all times with vaccine virus for this purpose.

#### HOUSE DRAINAGE.

The sanitary wants and conditions of this city have been so exhaustively treated of by my predecessor, Dr. Frank Wells, that there is but little left to be said.

There is one subject, however, which should not be passed over unnoticed, on account of its practical importance and its great influence on the health and life of the citizens, and that is house drainage.

It is safe to say that in the majority of houses connected with the sewer the drains are constructed without regard to the rules and principles of sanitary science,—rules and principles which are so simple that every householder can and should be familiar with them and be able to judge for himself whether or not the drainage of his own house is put in as it should be.

It is my belief that neglect of this subject is largely due to lack of knowledge among the people. The dread of sickness and death (even to a ridiculous extent) is so much a part of human nature that it is not supposable that many persons would be so apathetic if they appreciated the danger. Moreover there is a special effort made to have the work done as

cheaply as possible, it being given to the lowest bidder, and it can be depended upon that the contractor will not lose but make money, and there are many ways in which he can impose on the owner of the property, as this class of work is covered up and out of sight.

A cheap sewer presents some of the following characteristics: The bed on which it is laid is not solid, and hence it settles; the pipes are uneven, so that there are depressions in which sewerage stagnates, decomposes and generates gases; the joints are not cemented tightly; where there is a change in direction, instead of using an elbow or a branch nicely cast for the purpose, it is accomplished by knocking a hole in an ordinary straight pipe, and at the break thus made another pipe is joined on in a rough and bungling manner. Again, the trap is so placed that it is impossible to get at it to clean it when occasion requires; there is a deficiency in the number and arrangement of the traps, and, above all, the absolute omission of ventilation.

A sewer constructed in this careless way is worse than useless; it does not carry off promptly the waste from the house, and it serves as an avenue for the entrance of insidious poisons, which render the house an unsafe habitation.

It is a great misfortune that all sewer gases have not an intensely disagreeable odor; some have, as e. g. sulphuretted hydrogen, but other gases, and they, the most dangerous, have no odor, and hence the absence of odor is no proof of safety. It is the strong smell of illuminating gas which allows us to introduce gas pipes into every part of our houses with perfect impunity, because, if a leak occurs, it at once makes itself known, and receives attention before any harm is done.

To secure a safe house drain, it is essential that no cheap work be permitted, the bed on which the pipes are laid must be solid, the joints tight, all branches made in the form of a Y, and not of an L; the pipes in the house should be of iron as far as possible, although sewer pipe is generally laid in the

cellar, but it must be done with the greatest care and pass from the building in the shortest direction possible, and be trapped just before entering the building. Traps should also be placed immediately under every water-closet, wash-stand, bath-tub, etc.; but most important of all is the carrying out of the principle that safety against sewer gas depends on its dilution. This is attained by ventilation, and by ventilation of sewers is meant the providing of openings for the easy and free escape of sewer gas where it will do no harm. To accomplish this, soil pipes must in all instances run up and open above the roof, and the gas which will there escape will never again descend in a sufficiently concentrated form to do any injury. To render the ventilation complete it is necessary to have another opening into the drain just outside the house, by means of a pipe also extending above the roof.

So much has been said about traps that it has become a popular idea that if drains are well trapped it is all sufficient. This is a grave error. No trap ever has or ever can be invented which by itself can prevent the entrance of sewer gas into houses, although there are traps invented here in our own city which it is impossible to force; but if a pipe cracks from frost or erosion even though ever so slightly, and so as to escape detection, nevertheless it is enough to give exit to gas and the trap is powerless to prevent it, whereas these breaks are of little moment if there is good ventilation. The latter therefore, is of principal importance, and a drain well ventilated and only supplied with the ordinary S trap is far preferable to an unventilated drain with the most expensive and most approved traps. Let every one look to it that the sewer of his house is provided with means for free egress of sewer gas and entrance of fresh air, and it is not improbable that it will result in saving the life of one or more of the inmates.

When a stench is noticed arising from a sewer it can often be removed by extending the soil pipe to the roof, where this precaution has been neglected in the first construction.

It is the determination of your Health Department to carry these principles into operation as universally as possible, and to obtain the proper jurisdiction in the matter the request has been made that the following become one of the city ordinances, which we hope will meet with the favor and co-operation of the Council:

“No person or persons shall connect any building with any sewer in the city without a written permit so to do from the Health Department, signed by the Health Officer, which permit shall designate the kind and number of traps, and shall state the manner in which the house drainage shall be ventilated.”

But while such great stress is laid on the injurious effects of a defective sewer it must be understood that a well arranged sewer is perfectly safe and is one of the greatest preventives of disease, and the connection of private dwellings with the public sewers is to be very strongly advised, and ought to become far more general than it is at present.

In conclusion there is an important duty which the city owes the citizens in this matter and that is to provide vents for the gas in the public sewers. This is entirely neglected at present. The plan which experience has shown to be most effectual and practicable, and at the same time the simplest, cheapest and within the reach of this city, is the substitution of perforated man-hole covers for solid ones. If it is a question of expense it can be done without the expenditure of an additional cent, in this way, namely: Whenever it becomes necessary to procure a new cover on account of the old one being broken or worn out, let the new one in every case be a perforated cover, and in time the desirable object will be attained; although it would be far better if they could all be replaced at once. If a disagreeable odor escapes it is because there is an obstruction or a collection of filth, and the remedy is not to close up the opening, but to flush the sewer. It would also be advisable to remove the traps between the sew-



ers and the catch-basins, as the latter are generally the more filthy of the two, and this would give additional openings for ventilation. Such vents are particularly demanded in this city because the main sewers open in the direction of the prevailing winds. I have been repeatedly told by different persons that they are liable to be troubled with unpleasant odors from the sewers when the wind is from the lake, and the explanation is easy.

An officer who is very much needed by the Department is a Sewer Inspector, who is a practical plumber and is thoroughly qualified to examine house drains and sewer connections. Such a man should be constantly employed, going from house to house inspecting these matters, and report the results to this office. In these hard times of scarcity of work an Inspector of this kind could probably be obtained for some such moderate figure as is paid a sanitary policeman, and I would suggest that when the force is increased in the Spring, such an appointment be made.

#### SWILL AND GARBAGE.

The question of how to dispose of swill and garbage is still a vexed one, and is the source of much annoyance and embarrassment to this Department.

Upon application at this office the contractor sends a wagon for swill once or twice a week. For the disposal of garbage from provision stores, fish markets, etc., the following plan was adopted during the past summer: A place was selected at the junction of West River and Old River streets, where any one who desired could deposit garbage. To prevent the rapid decomposition which would result from its exposure to rain and sun, and to render its deposit here as little offensive as possible, a shed was erected to receive this material. Once a day the contractor removed all garbage from this building, and an effort was made to keep the shed disinfected. This plan has answered very well, the only drawback being that during the hot months it was somewhat of a nuisance to men

working in that locality. The proper way would be to send teams to the various provision houses to carry all waste animal and vegetable matter direct to the country ; but such an arrangement would involve increased expense, and that the city is evidently not in favor of. Under the present contract, which is the most economical, it is impossible to avoid having some place where garbage can be collected, and the place selected is certainly the most available and least objectionable.

In this connection it is to be recommended that every household burn as much as possible of its kitchen garbage when other means of disposal are not at hand. When kept dry it can readily be consumed in a hot kitchen fire, and thus much waste material can be conveniently and safely destroyed. If this practice should become general throughout the city, it would conduce much to cleanliness in back yards and alleys.

#### SLAUGHTER HOUSES.

A matter which has received considerable attention from the Health Department the past year, is that of the numerous slaughter houses located in the Twelfth ward, and it will require much work and a good deal of expense on the part of the city before these houses and their surroundings are put in as good sanitary condition as they should be. It is a subject of great interest, affecting, as it does, the health and comfort of a large part of the community.

Complaints at first were very frequent, but after strenuous efforts were made to abate nuisances arising from this source, complaints were very decidedly lessened.

It has been the custom for some years to require every one wishing to establish a business of this character to first obtain a license, but it seemed to have been lost sight of that these licenses were not perpetual, but were issued for a given time. The Department desired to obtain all the control possible over these establishments, and in the early part of the season the ordinances regulating slaughter houses were carefully examined, and it was found that the above named licenses only

continued in force for one year. Every license had therefore expired some time previous. The proprietor of each slaughter house was accordingly notified to apply to the City Council for a renewal of his license, which in each instance was granted: \$5.00 being the fee, and \$1,000 the bond that the applicant should faithfully comply with the health ordinances.

Every effort has been made to keep these places as clean and as healthy as possible, and that we have been at least partially successful is proven by the very flattering report on the subject made by a committee of the Council last August.

To conduct the business of slaughtering without offense is possible, but not at all probable, for it is in its very nature an offensive trade, though it is not slaughtering which causes the greatest nuisance, but the rendering and trying, and it is this which has given the most trouble. After careful investigation I am convinced that rendering will produce a very disagreeable odor, even though the fat is sweet and fresh. It is consequently necessary that in all cases some arrangement should be made for destroying the smell. Several methods have been tried, but the one which has succeeded best, and which we have caused to be adopted, is to have the steam pipe, leading from the otherwise steam-tight vessel, open into a tank of cold running water. The steam is thus condensed, and this has proved far more effective than the destruction by combustion, although both methods can be combined to advantage, as the Ammonia Works have done to destroy the noxious gases generated in their Works on Meadow street, and which has thus far answered the purpose admirably. It is very desirable that an ordinance be passed providing, that the business of rendering should not be carried on without a permit, as it seldom fails to make itself a nuisance if in too close proximity to dwelling houses. There are several places in the city now where fat, tallow or lard is melted and rendered, and against which there are bitter complaints. But there is no ordinance under which they can be made to remove, or to pre-

vent others from conducting the same business in the best portions of the city.

The insurmountable obstacle in keeping the Twelfth ward slaughter houses in a sanitary condition is the total absence of sewer advantages. All solid refuse they are ordered to cart away, but the blood and all liquid filth is discharged into Walworth Run. During the past month I made an inspection of the condition of this stream. It receives the sewerage and waste from the stock yards, five oil refineries, one chemical company, wax works, Columbus street sewer from both directions, two soap manufactories, three breweries, sausage works, woolen mills, Swiss street sewer and ten slaughter houses, besides the street washings from all the streets terminating in this ravine. The stream was red from the blood which was running into it.

Probably no sewer in the city carries more filth than this run does; certainly no district has so much need of a sewer, or has so many offensive establishments on such a limited territory, for the entire distance from Jennings avenue to what is known as the "Pond," is only 4800 feet, or little less than a mile.

A number of arrests have been made in this locality for violation of the health ordinances, and in each instance the accused have pleaded guilty, or been proved so, and fined accordingly.

#### WELL WATER.

During the past year the City Chemist has made five thorough analyses of well water. All but one specimen contained some impurities. Two samples contained so much deleterious matter as to be totally unfit for drinking purposes. In addition I have tested quite a number of specimens in a general way, and in the majority of cases have found the water impure, and in some have found it extremely so. These facts, in connection with investigations made in this direction in previous years, leave no doubt but that the well water of this city in general is a very dangerous thing to drink, and

every inducement ought to be held out to citizens to supply themselves with lake water. Even though on examination well water at any given time is found to be good, there is no guarantee that within a short time it will not be contaminated from some source.

There are many streets on which there are no water pipes, and again, where lake water is accessible, it is not uncommon to find people too poor to go to the expense of having pipes brought into their houses, or too indifferent. The following advice, therefore, is offered to those who either from necessity or otherwise use well water: First—Wells often become impure from stagnation; very commonly this is the whole difficulty. People only draw out the amount of water they need, this often being small compared with the capacity of the well. All that is necessary here is to pump the well out thoroughly, and as a preventive every well ought to be pumped out as dry as possible several times a year.

Although such a procedure will make the water look turbid for a day or two (the appearance being due to sand), still, when the well refills, the water will be found comparatively pure, and even the turbid water is more wholesome than the clear but impure water furnished by the well previous to this pumping process.

Second—Surface wells should never be used in the city, only deep wells. By a surface well is meant one which is usually sunk into a bed of sand or gravel lying upon an impervious layer of clay; a deep well, one which is sunk through the clay; and this impervious stratum prevents surface impurities soaking into and polluting the water. From physical causes the water in a deep well may stand at the same level as that of a surface well, the only difference between the two (and that a vital one) being the source from which they receive their supply.

The tube well affords an easy and economical way of obtaining deep water. It consists of a small iron tube, is driven

into the ground in sections, the lower end is perforated, and a pump is attached. To illustrate: Several months ago the water from a tube well (a deep one) in the Fifteenth ward was analyzed. It proved to be perfectly pure; only a few hundred feet away was a surface well to which attention was directed by the sickness of persons using it. The water was found impure, and the owner was advised to secure deep water by driving a tube well. The advice was followed and good water was the result.

#### ARTIFICIAL BUTTER.

In the early part of the year it was discovered that an artificial butter was being sold quite extensively. It is a different substance from the oleomargarine. On analysis and examination it was found to consist of one part butter and two parts lard, and the mixture colored with tumeric, to give it the shade of genuine butter. No poisonous substance whatever was found in it. A State law has since been passed to prohibit the sale of this material, except when stamped with its appropriate name. But as this manufactured butter was not pronounced deleterious by the Chemist, and as to have it marked will not render it more wholesome, it is evidently not within the province of this Department to take further action in the matter. I will, however, state for the information of the public, that there is much of this material in the market and offered for sale without being marked as the law prescribes. Some of it is so good an imitation of real butter that it is difficult to detect it by the taste alone.

#### MILK.

Two samples of milk were analyzed and found to be of good quality. An effort was made to charge milk dealers a license, but failed as it was decided to be illegal to collect a license fee of persons for selling their own productions. The two samples above referred to, however, are no criterion of the quality of milk sold in the city. It requires extended investigations to arrive at any conclusion, and these ought to be

made, as it is more than probable that much of the milk sold in the city is adulterated, and if so, it is doubtless the cause of much sickness among young children in the summer time. But to do this it is not necessary to have a Milk Inspector; the Health Department can easily oversee this business, if it is only allowed the requisite funds to make the analysis.

There are moreover other substances which should be analyzed; very important among them is ice. The quality of ice distributed through the city for domestic purposes ought to be carefully examined. But no action can be taken without the services of the Chemist, and this requires money, which is not at our disposal.

I would respectfully recommend that no person be allowed to sell ice in the city without written permits from the Health Department, which permit to state the source from which the ice is obtained, and that all ice wagons be numbered.

Another material for analysis is candy, in the coloring of which poisonous chemicals are at times used. This subject is not a trivial one, as it is estimated that the confectionery consumed in this country equals in value that of flour.

There certainly ought to be a fund placed at the disposal of this Department for these analyses and other contingencies.

It will be granted by any one who candidly examines the subject, that all moneys judiciously expended for sanitary measures and for prevention of disease will pay a handsome return. Sickness interferes with the prosperity of an individual and of a family; it also does so with that of a city. It is constantly forgotten how much loss is occasioned annually by disease. It has been calculated that for each death in a year there are two constantly sick; in other words, 730 days of sickness. The 2,710 deaths which occurred last year would therefore indicate that there were 1,978,300 days of sickness. The last report (1877) of the Cleveland City Hospital states its total expenditures to be \$13,507 34 and the number days of treatment 14,183 for the year. That would give an average

cost of a little over 95 cents per day for each patient. At that rate the 1,978,300 days of sickness in the city would indicate an expense of \$1,879,385. But the cost of caring for the sick in private families is double what it would be at the Hospital, where there are no rents to pay, nor physicians' fees, nor druggists' charges for compounding expensive prescriptions, and where large quantities of provisions and clothing are donated. Besides the loss of time, either to the sick or to those who nurse them, the interference of business, and the cost of funerals must be taken into consideration. So that three and a half millions of dollars can be put down as the..... cost of sickness to this city during the year 1878. In comparison with this the \$12,414 18 expended for protecting the health of the city sinks into insignificance.

The expenses of the Department have been extremely low this year, being less than half what they were in 1874. I question the wisdom of this strict economy, and am inclined to the belief that it were better for the city, better for the taxpayers, if the support given the Health Department was characterized by marked liberality. I however would not be understood as addressing complaints to your Honorable Board in this matter, for I am aware that your appropriation is limited and that you are obliged to keep within your income.

The number and character of the nuisances abated will be found in the Sergeant's Report.

In conclusion please allow me to take this opportunity to express to your Honorable Board my thanks for your kindness and courtesy, and to the officers of the different departments on whom I have had occasion to call for information or advice, and to the members of the force under my control for the promptness and attention with which they have discharged the duties assigned them.

Respectfully submitted,

GUY B. CASE, M. D.

*Health Officer.*

CLEVELAND, O., Dec. 31st, 1878.



# Statistical Tables.



TABLE NO. I.

ACTUAL MORTALITY FROM THE PRINCIPAL CAUSES OF DEATH, BY MONTH, FOR THE YEAR 1878.

Population of Cleveland, 162,000.

CAUSES OF DEATH.	January.	February.	March.	April.	May.	June.	July.	August.	September.	(October.	November.	December.	Total for 1878	Death Rate Per 1,000.	Percentage of each Cause on Total
Death from all Causes	184	165	188	173	179	180	353	287	280	254	233	216	2710	16.72	...
" " Zymotic Diseases	43	29	24	30	34	32	135	115	119	105	91	63	820	5.03	30.25
" " Constitutional Diseases.	52	45	48	47	48	52	62	57	56	50	45	55	617	3.80	22.37
" " Developmental Diseases.	29	23	28	22	25	26	42	32	33	24	22	25	331	2.04	12.21
" " Local Diseases.	56	63	79	72	61	72	91	76	64	68	65	64	831	5.12	30.65
" by Violence	4	5	9	2	11	7	23	7	17	7	10	9	111	.68	4.09
Small-Pox.															...
Measles															...
Scarlet Fever—Minors	1	2		1		2	1	5	2	2	4	11	31	.19	1.13
" " Adults															...
Diphtheria Minors	19	17	14	10	14	8	19	34	63	78	60	33	360	2.27	13.61
" " Adults	1								2	1	2	1	7	.04	.21
Croup	6	2	1	3	1			4	4	11	10	8	50	.30	1.84

TABLE NO. I—Continued.

CAUSES OF DEATH	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Total for 1878.	Death Rate Per 1,000.	Percentage of Cause on Total.
Whooping Cough.....	2	2	1	4	2	3	4	9	2	...	1	...	30	.18	1.11
Typhus Fever.....	...	...	...	...	...	...	...	1	...	...	...	1	2	.12	.07
Typhoid Fever.....	8	2	4	5	1	3	7	6	7	3	7	2	53	.33	1.99
Diarrheal Diseases—Under Five Years...	1	2	...	2	7	10	95	49	33	5	2	1	207	1.27	7.64
“ “ All ages.....	2	2	...	2	7	12	99	50	35	6	2	1	218	1.34	8.04
Cerebro-Spinal Meningitis.....	...	...	...	...	1	2	3	3	1	...	1	2	13	.08	.50
Erysipelas.....	2	1	2	3	2	...	1	...	...	1	1	4	17	.10	.60
Remittent, Intermittent, Typho Malarial. Congestive and Simple Continued Fevers	1	1	2	2	5	2	1	2	3	2	1	...	22	.13	.87
Alcoholism .....	1	...	...	...	1	...	...	1	...	1	2	...	6	.04	.21
Cancer.....	5	3	1	5	4	2	9	9	4	3	7	12	64	.30	2.34
Rheumatism and Gout.....	...	...	1	...	1	...	...	1	...	...	1	1	5	.03	.14
Marasmus, Tabes Mesenterica and Scrofula	21	18	21	11	13	25	21	25	24	15	13	0	216	1.33	7.98
Hydrocephalus and Tubercular Meningitis	3	11	6	3	9	7	7	9	5	12	5	10	86	.53	3.21
Phthisis Pulmonalis.....	23	13	19	28	21	18	25	13	23	30	19	23	245	1.51	9.04

TABLE NO. 1—Continued.

CAUSES OF DEATH.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Total for 1878.	Death Rate Per 1,000.	Percentage of Cause on Total.
Pneumonia.....	9	10	9	10	7	13	3	7	7	4	13	8	100	.61	3.60
Bronchitis .....	1	2	5	1	1	3	2	.....	.....	4	3	1	23	.14	.88
Meningitis and Encephalitis.....	.....	1	4	3	.....	1	3	1	.....	2	1	.....	16	.09	.50
Apoplexy.....	3	1	3	2	2	2	4	3	2	3	3	6	34	.20	1.24
Convulsions .....	14	12	15	24	19	19	36	28	12	24	13	13	229	1.41	8.45
Other Diseases of Brain and Nervous System .....	5	12	16	7	12	12	18	14	14	13	15	12	150	.82	5.53
Heart Diseases .....	6	12	11	8	8	10	4	6	12	10	8	9	104	.64	3.83
Bright's Disease and Nephritis .....	1	1	3	2	4	.....	3	2	7	3	3	.....	29	.17	1.07
Enteritis, Gastro-Enteritis, Peritonitis and Gastritis .....	17	12	13	15	8	12	18	15	10	7	6	6	130	.85	5.12
Puerperal Diseases.....	2	1	1	1	.....	3	.....	2	.....	1	.....	2	13	.06	.50
Premature Births .....	2	7	6	5	8	7	6	4	6	2	8	7	63	.38	2.32
Still Births .....	21	14	18	16	14	12	19	17	20	17	18	13	199	1.22	7.34
Inanition .....	4	1	3	.....	3	4	17	9	7	4	1	3	56	.34	2.06
Deaths by Suicide.....	.....	1	1	1	2	2	1	1	3	.....	1	1	14	.08	.50



TABLE No. 2.

DEATHS FROM ZYMOTIC DISEASES, BY WARDS.

Cleveland—Deaths from Small Pox, Measles, Scarlatina, Diphtheria, Whooping Cough, Typhoid Fever, Typhus Fever, Cholera, Cholera Infantum, Diarrhæal Maladies, and other Zymotic Diseases.

WARDS.	Small Pox.	Measles.	Scarlatina.	Diphtheria.	(Croup.	Whooping Cough.	Typhus Fever.	Typhoid Fever.	All Diarrhæal Diseases.	Cerebro Spinal Fever.	Other Zymotic Dis'es.	Total Deaths from Zymotic Diseases.	Population by Wards, Census of 1870.
First Ward.	.....	.....	.....	4	3	1	.....	5	11	.....	1	25	8,580
Second Ward	.....	.....	1	2	1	.....	.....	3	7	.....	4	18	5,080
Third Ward.....	.....	.....	.....	1	1	1	.....	.....	1	.....	1	5	3,200
Fourth Ward	.....	.....	1	5	.....	1	.....	3	12	2	2	26	9,850
Fifth Ward.....	.....	.....	4	23	.....	.....	2	4	13	1	.....	47	9,725
Sixth Ward.....	.....	.....	1	56	5	5	.....	3	25	1	7	103	13,324
Seventh Ward.....	.....	.....	1	12	4	7	.....	5	19	.....	1	49	5,058
Eighth Ward.....	.....	.....	1	31	5	5	.....	2	19	.....	3	66	5,410
Ninth Ward	.....	.....	.....	35	4	1	.....	4	8	.....	1	53	5,940
Tenth Ward	.....	.....	1	27	1	.....	.....	7	10	1	6	53	6,580

TABLE No. 2—Continued.

WARDS.	Small-Pox.	Measles.	Scarlatina.	Diphtheria.	Croup.	Whooping Cough.	Typhus Fever.	Typhoid Fever.	All Diarrheal Diseases.	Cerebro Spinal Fever.	Other Zymotic Diseases.	Total Deaths from Zymotic Diseases.	Population by Wards, Census of 1870.
Eleventh Ward .....	.....	.....	10	63	9	.....	.....	6	15	3	4	110	8,059
Twelfth Ward.....	.....	.....	2	23	5	2	.....	4	22	2	1	61	3,812
Thirteenth Ward .....	.....	.....	1	4	2	.....	.....	.....	9	1	4	21	3,687
Fourteenth Ward.....	.....	.....	.....	23	2	1	.....	2	14	.....	1	43	1,528
Fifteenth Ward .....	.....	.....	1	17	.....	.....	.....	1	9	.....	4	32	1,801
Sixteenth Ward .....	.....	.....	1	28	1	4	.....	1	4	.....	1	40	5,550
Seventeenth Ward.....	.....	.....	1	13	2	.....	.....	1	5	.....	1	23	2,180
Eighteenth Ward.....	.....	.....	5	9	5	2	.....	4	15	2	3	45	6,227
Total.....	.....	.....	31	376	50	20	2	55	218	13	45	820	



TABLE NO. 3.  
NATIVITY.

	MALES.	FEMALES.	TOTALS.
Cleveland. ....	875	708	1,583
Other Parts of the United States.....	219	245	464
Germany .....	156	110	266
Ireland . . . . .	84	99	183
Canada .....	23	17	40
England.....	57	39	96
Bohemia .....	26	17	43
Other Foreigners . . . . .	31	19	50
Unknown .....	2	3	5
Totals .....	1,453	1,257	2,710

TABLE NO. 4.

## DEATHS REPORTED IN PUBLIC INSTITUTIONS.

	MALES.	FEMALES.	TOTALS.
City Infirmary .....	28	13	33
Workhouse.....	4		4
Cleveland City Hospital.....	6	4	10
Homœopathic Hospital. ....	3	2	5
St. Luke's Rectory.....			
Little Sisters of the Poor .....	1	2	3
Small-Pox Hospital.....			
Jewish Orphan Asylum .....			
Orphan Asylum.....		1	1
Charity Hospital.....	15	7	22
House of Maternity.....	28	20	48
Infant Asylum .....			
Water Cure .....		1	1
Monroe Street Orphan Asylum.....	2		2
House of the Good Shepherd.....			
Insane Hospital.....	15	6	21
Totals .....	100	56	156

TABLE No. 5.  
YEARLY SUMMARY FOR 1878

1873.	BAROMETER.			THERMOMETER.			HUMIDITY.	WIND.			RAINFALL AND MELTED SNOW.			
	Mean.	Highest.	Lowest.	Difference.	Mean.	Maximum.		Minimum.	Difference.	Prevailing Direction.		Maximum During Month	Total Miles Traveled.	
							Amount in Inches.				No. of Days on which it Fell.			
January....	30.057	30.612	29.674	0.938	29.9	55	4	51	76.8	S. E.	36	8041	4.43	21
February...	29.971	30.455	29.305	1.150	31.4	57	1	56	74.3	S. E.	25	5711	2.51	15
March.....	29.956	30.382	29.311	1.071	42.4	73	19	54	71.6	S. E.	45	7969	5.06	22
April.....	29.787	30.184	29.378	0.806	53.6	81	36	43	64.1	S. E.	45	6635	2.80	16
May.....	29.926	30.269	29.519	0.690	57.1	81	37	44	61.6	W.	49	7008	3.03	15
June.....	29.913	30.232	29.528	0.704	65.1	86	43	43	63.7	N.	28	6065	2.68	15
July.....	29.935	30.176	29.404	0.774	74.3	96	57	39	73.1	N.	45	5070	7.97	16
August.....	29.883	30.067	29.668	0.419	71.7	90	48	42	67.3	N.	30	5594	2.15	14
September ..	30.077	30.491	29.621	0.870	65.1	86	43	43	70.5	S. E.	48	7808	9.30	15
October.....	30.030	30.344	29.711	0.633	53.3	80	29	51	64.5	S.	36	8343	5.00	17
November ..	30.015	30.480	29.316	1.164	41.6	53	26	27	71.6	N. W.	42	8143	2.81	18
December ..	30.034	30.582	29.212	1.370	25.0	46	2	48	79.2	S. W.	45	9749	5.06	27
Usual Means	29.985	30.358	29.476	0.882	50.9	73.7	28.6	45.1	69.2	S. E.	39.5	7182	4.46	1.76

TABLE NO. 6.—BIRTHS REPORTED DURING THE YEAR ENDING DECEMBER 31, 1878.

MONTHS.	AMERICAN.		GERMANS.		IRISH.		ENGLISH.		CANADIAN.		BOHEMIA.		OTHER FOREIGN'RS		TOTALS.
	Male.	Female.	Male.	Female.	Male.	Female.	Male.	Female.	Males.	Female.	Male.	Female.	Male.	Female.	
January.	69	55	66	68	36	36	12	18	4	8	19	7	11	19	429
February	47	59	73	66	33	19	17	20	6	2	19	17	8	6	302
March.....	53	47	75	57	28	24	19	19	8	3	18	17	25	14	402
April	66	40	61	67	27	21	16	16	2	3	20	20	13	18	300
May	46	60	77	66	28	26	18	17	5	1	10	19	7	8	388
June.....	80	44	62	64	25	18	15	13	9	8	13	26	7	6	300
July.....	48	41	62	73	33	30	11	13	5	10	20	18	4	3	371
August.....	60	68	81	78	30	31	17	18	7	9	19	22	22	13	475
September.....	79	67	80	104	37	28	9	9	3	5	24	10	10	9	474
October.....	58	71	70	70	36	29	23	20	8	7	24	24	13	12	467
November.....	51	41	64	57	20	31	18	13	3	5	24	15	12	24	378
December.....	36	54	66	71	31	32	11	16	5	6	18	21	6	5	378
Total by Sexes.....	693	647	837	842	306	325	186	192	65	67	223	216	198	137	4,924
Total Both Sexes.....	1,340		1,679		601		378		132		439		275		4,924

Thirty-five pairs of twins are included in the above.

# Secretary's Report.



REPORT

OF THE

SECRETARY HEALTH DEPARTMENT.

To the Honorable Board of Police Commissioners of the  
City of Cleveland, Ohio:

GENTLEMEN—I have the honor to submit herewith my  
Report of this Department for the year ending December  
31st, 1878.

The Health Department is represented by the following  
officers:

GUY B. CASE, M. D., . . . . . HEALTH OFFICER.  
L. W. BAILEY, . . . . . SECRETARY.

District Physicians.

H. H. POWELL, . . . , 1st Dist.	*H. A. SHERWOOD, . 4th Dist.
*J. F. GIBSON, . . . . 2d Dist.	*L. S. Chadwick, . . 5th Dist.
M. P. BRAINARD, . . . . 3d Dist.	†M. L. BROOKS, JR., . 6th Dist.

Sanitary Police.

A. VALLENDAR, . . . . . Sergeant.		
E. A. Webb,	W. E. Heffron,	G. P. Covert. †H. Roemer
E. H. Cowper,	A. Morison,	I. Richards.

Small-Pox Hospital.

Charles Kohlman, . . . . .	Steward.
Mrs. A. Kohlman, . . . . .	Matron.

\*Appointed May 22, 1878.  
†Appointed Oct. 1, 1878, vice I. N. Oakes, resigned.  
‡Appointed May 30, 1878.

## RECEIPTS.

Of Fred. Hackendall, on account contract for Removal of Dead	
Animals for 1877, . . . . .	\$ 50 00
Of Newburgh Fertilizing Co., on account contract for Removal of	
Dead Animals for 1878, . . . . .	300 00
From Sale of Calf at Small-Pox Farm . . . . .	4 00
Total . . . . .	<u>\$354 00</u>

Paid the same to City Treasurer.

## RECEIPTS ON ACCOUNT OF REMOVAL OF NIGHT-SOIL.

Received in 1878 . . . . .	\$7,680 49
Paid to Geo. Dart, Contractor . . . . .	7,627 61
Balance on hand . . . . .	<u>\$ 52 88</u>

## DISBURSEMENTS.

## PAY ROLL.

Health Officer . . . . .	\$1,200 00
Secretary . . . . .	1,000 00
District Physicians . . . . .	3,260 04
Sanitary Police . . . . .	5,292 34
Steward and Matron Small-Pox Hospital . . . . .	550 00
	<u>\$11,302 38</u>

## SUPPLIES, ETC.

Small-Pox Hospital . . . . .	\$ 516 28
Printing, Stationery and Postage . . . . .	419 52
City Chemist . . . . .	40 00
Filling and Draining Vacant Lots . . . . .	44 50
Removal of Dead Dogs . . . . .	24 50
Rents . . . . .	120 00
Disinfectants and Virus . . . . .	16 00
	<u>1,180 80</u>

Total . . . . . \$12,483 18

The amount paid by this Department for draining Vacant lots will be paid by the owners of said lots, the same having been included in the Tax Duplicate, consequently should not be included in the cost of running this Department . . . . .

44 50

\$12,438 68



Brought forward . . . . .	\$12,438 68
The amount paid for the Removal of Dead Dogs was refunded from the Dog Tax collected therefor. This is not an actual expense to this Department, and should also be deducted	24 50
Total Cost of running this Department for the year . . .	\$12,414 18

## REVIEW.

Pay Roll for 1877 . . . . .	\$11,783 98
Pay Roll for 1878 . . . . .	11,302 38
Reduction . . . . .	\$ 481 60
Supplies, etc., for 1877 . . . . .	\$2,322 13
Supplies, etc., for 1878 . . . . .	1,111 80
Reduction . . . . .	\$1,210 33
Total Reduction of running this Dept., 1878 over 1877 .	\$1,691 93

Following this are tables showing the work accomplished by the District Physicians and the Sanitary Police during the year

Respectfully,  
L. W. BAILEY,  
*Secretary Health Department  
and Asst. Secretary Board of Police.*

TABLE NO. 7.  
ANNUAL REPORT OF PHYSICIAN FOR DISTRICT NO. 1,  
FOR THE YEAR ENDING DECEMBER 31, 1878.

DISEASES, ETC.	Under 1 Year.										Under 2 Years.										Under 3 Years.										Under 10 Years.										Under 20 Years.										Under 40 Years.										Under 50 Years.										Under 60 Years.										Under 70 Years.										Over 70 Years.										Males.										Females.										Married.										Single.										White.										Prescription, No. of										Visits Made, No. of										American.										German.										English.										Irish.										Jews.										Bohemians.										Negroes.										All Others.										Total.									
	Under 1 Year.										Under 2 Years.										Under 3 Years.										Under 10 Years.										Under 20 Years.										Under 40 Years.										Under 50 Years.										Under 60 Years.										Under 70 Years.										Over 70 Years.										Males.										Females.										Married.										Single.										White.										Prescription, No. of										Visits Made, No. of										American.										German.										English.										Irish.										Jews.										Bohemians.										Negroes.										All Others.										Total.									
Zymotic	7										18										25										37										4										24										10										1										1										1										22										59										16										115										131										204										142										28										10										2										78										14										0										0										1										131									
Constitutional	3										3										4										5										16										54										30										14										11										73										71										62										82										144										229										156										33										5										4										101										0										0										1										144																													
Local	3										11										16										19										43										105										47										16										7										106										168										119										155										274										439										218										42										11										7										202										5										0										7										274																													
Developmental	0										0										1										0										3										7										4										1										0										2										14										9										7										16										28										17										2										0										1										13										0										0										0										7										274																			
Violent	0										0										0										9										12										2										7										25										13										17										21										38										58										38										0										4										0										32										1										0										0										1										38																																							
Total	13										32										46										70										73										202										93										30										30										278										325										223										380										603										958										571										103										30										14										426										50										0										0										10										603																			



TABLE No. 9.  
ANNUAL REPORT OF PHYSICIAN FOR DISTRICT NO. 3,  
FOR THE YEAR ENDING DECEMBER 31, 1878.

DISEASES, ETC.	Under 1 Year.										Males.	Females.	Married.	Single.	Color.	Prescription, No. of	Visits Made, No. of	American.	German.	English.	Irish.	Jews.	Bohemians.	Negroes.	All Others.	Total.
	Under 1 Year.	Under 2 Years.	Under 5 Years.	Under 10 Years.	Under 20 Years.	Under 40 Years.	Under 60 Years.	Under 80 Years.	Under 70 Years.	Over 70 Years.																
Zymotic.....	5	8	15	18	19	60	40	20	5	...	100	90	80	110	W	179	160	10	10	5	165	...	...	...	...	190
Local.....	4	12	28	42	50	97	72	10	2	...	150	167	167	150	W	300	300	18	20	6	273	...	...	...	...	317
Constitutional.....	...	...	...	3	6	8	28	2	3	...	20	30	35	15	W	160	75	...	5	5	40	...	...	...	...	50
Developmental.....	...	...	1	...	6	15	15	5	3	...	23	22	25	20	W	180	80	2	5	3	35	...	...	...	...	45
Violent.....	...	...	4	10	4	6	6	2	1	...	25	8	13	20	W	152	100	...	1	...	32	...	...	...	...	33
Total.....	9	20	48	73	85	186	161	39	14	...	318	317	320	315	...	971	715	30	41	19	545	...	...	...	...	635

TABLE NO. 10.  
ANNUAL REPORT OF PHYSICIAN FOR DISTRICT NO. 4,  
FOR THE YEAR ENDING DECEMBER 31, 1878.

DISEASES, ETC.	Age.										Males.	Females.	Married.	Single.	Color.	Prescription, No. of	Visits Made, No. of	American.	German.	English.	Irish.	Jews.	Bohemians.	Negroes.	All Other.	Total.
	Under 1 Year.	Under 2 Years.	Under 5 Years.	Under 10 Years.	Under 20 Years.	Under 40 Years.	Under 50 Years.	Under 60 Years.	Under 70 Years.	Over 70 Years.																
Zymotic.....	7	12	15	8	6	2	1				26	25	3	48	W	147	223	16	24	3	5	1	1	1		51
Constitutional.....			3	7	11	53	6		2	2	55	29	41	43	"	219	169	31	23	7	10	1	12			84
Developmental.....	1		2	1			1				4	1	1	4	"	10	12	2	3							5
Local.....	5	10	27	36	35	85	22	12	4	1	120	117	93	144	"	529	406	79	86	15	38		19			237
Violent.....			1	1			1				3		1	2	"	4	4		1	1	1					3
Total.....	13	22	48	53	52	140	31	12	6	3	218	172	139	241		909	806	128	137	26	54	2	32	1		380

TABLE No. II.  
ANNUAL REPORT OF PHYSICIAN FOR DISTRICT NO. 5,  
FOR THE YEAR ENDING DECEMBER 31, 1878.

DISEASES, ETC.	Under 70 Years.										Males.		Female.		Married.		Single.		White.		Prescription, No. of		Visits Made, No. of		American.		German.		English.		Irish.		Jews.		Bohemians.		Negroes.		All others.		Total.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
	Under 1 Year.	Under 2 Years.	Under 3 Years.	Under 10 Years.	Under 20 Years.	Under 40 Years.	Under 50 Years.	Under 60 Years.	Under 70 Years.	Over 70 Years.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															

TABLE No. 12.

ANNUAL REPORT OF PHYSICIAN FOR DISTRICT NO. 6,  
FOR THE YEAR ENDING DECEMBER 31, 1878.

DISEASES, ETC.	Under 1 Year.	Under 2 Years.	Under 5 Years.	Under 10 Years.	Under 20 Years.	Under 40 Years.	Under 60 Years.	Under 70 Years.	Over 70 Years.	Males.	Females.	Married.	Single.	White.	Prescription, No. of	Vitals Made, No. of	American.	German.	English.	Irish.	Jews.	Bohemians.	Negroes.	All Others.	Total.
Zymotic.....	5	4	7	8	5	21	16	2	..	86	72	36	34	...	151	193	6	1	36	30	...	2	...	5	70
Constitutional.....	5	1	9	5	20	38	27	20	2	86	76	113	49	...	387	115	9	7	26	103	...	9	1	6	162
Local.....	9	3	4	11	11	31	18	23	2	57	63	74	46	...	231	121	7	6	22	60	...	7	...	9	120
Violent .....	...	...	...	1	6	13	4	2	..	23	4	18	9	...	70	89	3	...	2	17	...	2	...	3	27
Total.....	19	8	20	25	42	103	65	62	4	204	175	241	138	161	830	518	25	14	77	219	...	20	1	23	379

show

Private. Now.

Sec



CLEVELAND, JANUARY 1, 1879.

showing all the nuisances which have been abated during that time.

A. VALLENDAR,  
Sergeant Sanitary Force.

	Privies, New.	Sewers.	Sewers, Connection.	Stables.	Stables, Cow.	Streets, Filthy.	Swill and Garbage.	Water Closets.	Wells.	Vaults, Privy, Closed.	Vaults, Privy, New.	Vaults, Privy, Cleaned.	Yards.	Total by Months.
5	14	48	3	40	39	47	392	32	13	30	29	197	382	3041
7	11	37	1	27	19	45	284	28	8	10	14	157	220	2250
2	20	53	7	53	44	48	355	18	8	18	41	213	600	3777
5	14	48	3	40	39	47	392	32	13	30	29	197	382	3041
0	18	50	24	39	36	24	379	20	22	21	36	248	408	2969
3	22	52	25	69	86	33	460	32	19	22	44	379	572	4300
4	24	28	21	55	65	29	372	24	9	8	25	231	445	3158
8	19	52	30	67	105	30	531	35	20	20	42	247	611	4551
2	12	35	12	73	80	25	416	25	12	9	29	211	480	3486
0	11	38	13	61	80	17	407	19	9	13	30	182	467	3316
5	12	41	16	55	81	22	582	22	9	15	36	219	595	4177
5	11	21	5	54	50	24	301	17	4	5	17	101	277	2531
3	183	501	160	633	724	391	4851	302	146	201	372	2582	5517	40612

Issued by the Police Court.



# ANNUAL REPORT

OF THE

## PROCEEDINGS OF THE POLICE COURT,

FOR THE

YEAR ENDING DECEMBER 31, 1878.



# Police Court Report.

*To the City Council of the City of Cleveland:*

## NUMBER ARRAIGNED.

City Cases.	Number of Persons arraigned.....	5,777
State Cases....	Number of Persons arraigned.....	1,252
	Number of State Examinations.....	248
	Total number arraigned before Court....	7,277

## FINES AND COSTS ASSESSED.

City Cases.....	Amount of fines assessed. ....	\$25,496 00
" " .....	" " costs " .....	4,574 92
" " .....	Total am't of fines and costs assessed	\$30,070 92
State Cases .....	Amount of fines assessed.....	\$ 6,242 00
" " .....	" " costs " .....	4,022 64
State Examinations..	Amount of costs .....	1,800 39
	Total am't of fines and costs assessed	12,065 03
	Total amount of fines and costs assessed in City and State cases..	\$42,135 95

## FINES AND COSTS COLLECTED.

City Cases.....	Amount of fines collected.....	\$ 9,929 00	
" " .....	" " costs " .....	2,458 89	
" " .....	Tot. am't of fines and costs collected ..		\$12,387 89
State Cases. ....	Amount of fines collected .....	\$ 2,331 00	
" " .....	" " costs " .....	1,902 92	
" " .....	Tot. am't of fines and costs collected ..		4,233 92
Total am't of fines and costs collected in City and State cases....			\$16,621 81

## DISPOSITION OF FINES AND COSTS COLLECTED.

	Am't of fees paid witnesses and jurors \$	889 00	
	Am't paid Police Commissioners for serving writs .....	1,780 96	
City Cases. ....	Am't paid City Treasurer.....	9,717 93	
State Cases.....	Am't paid County Treasurer.....	4,175 92	
" " .....	Am't paid Humane Society .....	58 00	
	Total amount of fines and costs disposed of.....		\$16,621 81
City Cases.....	Amount of fines and costs collected at the Workhouse.....	\$ 1,824 89	
State Cases.....	Amount of fines and costs collected at the Workhouse.....	1,001 41	
	Total amount collected at the Workhouse, for all of which the Police Court Fund receives no credit.....		2,826 30
	Total amount collected at the Police Court and Workhouse.....		\$19,448 11

## CITY CASES.

Intoxication.....	2534	Violating Park Ordinance.....	11
Disturbance .....	581	Gambling.....	11
Disorderly Conduct. ....	514	Peddling without License....	10
Violating Sidewalk Ordinance...	316	Indecent Exposure of Person....	9
Vagrancy .....	266	Immoral Conduct.....	9
Suspicious Person. ....	223	Violating Wagon Ordinance.....	9
Visiting House of Ill Fame. ....	141	" Junk "	8
Residing in House of Ill Fame...	99	" Water Works Ord.....	8
Destroying Property.....	86	Keeping Gambling House....	7
Violating Street Ordinance.....	73	Violating Railroad Ordinance ...	5
Indecent Conduct.....	68	" Hay "	4
Abusing Family.....	66	" Music "	4
Keeping House of Ill Fame.....	55	" Runner "	2
Violating Property Ordinance ..	51	" Milk "	2
" Health "	50	" Street Car "	2
" Bathing "	50	" Sunday "	2
" Dog "	45	Keeping Walter Girl Saloon.....	2
" Hack "	40	Lewd Behavior.....	2
" Pound "	34	Habitual Drunkard. ....	1
" Sunday Liq'r "	29	Cruelty to Animals.....	1
" Boot Black "	29	Exhibiting without License ..	1
Common Prostitute.....	29	Using Indecent Language.....	1
Violating Market Ordinance.....	27	Rude Conduct.....	1
" Express "	26	Defacing Trees.....	1
" Bridge "	25	Injuring Property .....	1
" Peddling "	25	Challenging Another to Flight....	1
Fast Driving.....	22	Violating Walter Girl Ordinance.	1
Careless Driving. ....	22	" Dray "	1
Common Beggar.....	20	" Concert Saloon "	1
Keeping Disorderly House.....	18	" Fire Telegraph "	1
Violating Weight and Measure Ordinance .....	16	" Exhibition "	1
Violating Fire-arm Ordinance...	16	" Bill Board "	1
" Ball "	15	" Passenger "	1
" Billiard "	15	" Fire "	1
Habitual Disturber of the Peace...	15	Violating Intelligence and Em- ployment Ordinance .....	1
Violat'g Public Resort Ordinance	12	Total .....	5,777

## STATE CASES.

Petit Larceny.....	308	Personating Officer.....	3
Assault and Battery .....	312	Body Snatching.....	3
Violating Railroad Law.....	60	Buying Stolen Property.....	3
Incorrigible Conduct.....	56	Provoking Breach of the Peace ..	3
Gambling.....	46	Threaten'g in a Menac'g Manner.	3
Carrying Concealed Weapons.....	30	Fornication.....	3
Resisting Officer.....	37	Receiving and Secreting Stolen Property.....	2
Intoxication.....	34	Obtaining Property by False Pretenses.....	2
Obstructing Officer.....	30	Breaking into a Railroad Car.....	2
Assaulting Officer.....	28	Destroying Trees.....	2
Obtaining Money by False Pretenses.....	28	Assault.....	2
Cruelty to Animals.....	25	Violating Street Railroad Law ..	2
Destroying Property.....	17	Adultery.....	2
Embezzlement.....	14	Selling Liquor to Minors.....	2
House Breaking.....	14	Selling Liquor to Intoxicated Person.....	1
Secreting a Corpse.....	13	Refusing to Assist an Officer.....	1
Contempt of Court.....	10	Violating Liquor Law.....	1
Receiving Stolen Property.....	10	Carrying Obscene Model.....	1
Wrongfully Using Horse.....	8	Violating Pawnbroker Law ..	1
Cruelty to Children.....	7	Keeping Gambling House.....	1
Unlawfully Delivering a Corpse for Medical and Surgical Study.	7	Assault and Threatening.....	1
Obtaining Goods by False Pretenses.....	6	Insane.....	1
Violation Election Liquor Law...	6		
Buy'g and Receiv'g Stolen Property .....	5	Total.....	1252
Abusing Officer. ....	4		



STATE EXAMINATION.

•Grand Larceny.....	68	Maiming .....	2
Burglary .....	61	Stabbing with Intent to Wound..	2
Cutting with Intent to Wound...	17	Receiving Stolen Property.....	2
Fugitive from Justice.....	11	Counterfeiting .....	2
Forgery .....	9	Insane .....	1
Robbery .....	8	Assault with Intent to Wound...	1
Embezzlement.....	8	Seduction .....	1
Receiv'g and Buy'g Stolen Prop- erty.....	8	Shooting at with Intent to Kill	1
Obtaining Money by False Pre- tenses .....	7	Arson.....	1
Rape.....	6	Destroying Property. ....	1
Horse Stealing ... ..	6	Passing Counterfeit Coin.....	1
Assault with Intent to Kill .....	6	House Breaking.....	1
Shooting with Intent to Wound..	5	Attempt to Murder.....	1
Murder.....	4	Obtaining Property by False Pre- tenses.....	1
Passing Counterfeit Money .....	3	Shooting with Intent to Kill.....	1
Assault with intent to Rape	3		
Assault with Intent to Rob.. ..	2	Total.....	248

Respectfully submitted,

O. S. GARDNER.

*Police Clerk.*

By FRANK KARDA,

*Deputy Clerk.*



FIFTH  
ANNUAL REPORT

OF THE  
BOARD

OF

Fire Commissioners

TO THE

CITY COUNCIL

OF CLEVELAND, O.



# Fire Commissioners' Report.

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*To the Honorable City Council:*

GENTLEMEN:—In submitting the Fifth Annual Report of the Board of Fire Commissioners for the year ending December 31, 1878, it is designed to give only such matter as may be of interest to those who may care to examine the transactions of the Board during the year. This Report will embrace:

Organization of Boards since 1874.

Financial condition of the Department, covering the aggregate Receipts and Disbursements.

Running Expenses, comparative since 1874.

Total number of Fires, Losses and Insurance since 1864.

Comparisons of Salaries between the New York Fire Department and Cleveland Fire Department.

Superintendent of Telegraph's Report, giving the number of fires, &c.

Estimated Value of Houses and Lots.

Cost and Estimated Value of Engines.

When each Engine was put into service.

Location of Reservoirs.

Statistical Tables.

Some suggestions, all of which have been compiled, and may be of interest to some of the citizens of Cleveland. The Report of 1875 was the last published in pamphlet form. The Commissioners did not order the Report of 1876 and 1877 published because they thought the expense would not warrant it.

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## ORGANIZATION OF BOARDS.

The first Board of Fire Commissioners was organized under an act of the Legislature passed April 29th, 1873, and consisted of the Mayor, who was President, the Chairman of the Committee on Fire and Water of the City Council, and three resident freeholders, nominated by the Mayor and approved by the City Council; the Commissioners to hold office for one year, for two years, and three years, and thereafter one member was to be nominated and appointed annually.

This law was repealed in 1876, and the electors of the city were given the privilege of selecting four Commissioners, resident freeholders, to hold their offices: one for one year, one for two years, one for three years, and one for four years, and at each municipal election thereafter there shall be elected one member of said Board for the term of four years: one member to be appointed as in the law of 1873.

## COMMISSIONERS OF 1874.

HON. CHAS. A. OTIS,	.	.	.	President.
MR. H. W. LEUTKEMEYER,	.	.	.	Citizen Member.
MR. H. D. COFFINBERRY,	.	.	.	Citizen Member.
COL. W. H. HAYWARD,	.	.	.	Citizen Member.
COL. A. VAN TASSELL,	.	.	.	Council Member.
A. B. BEACH,	.	.	.	Secretary.

## COMMISSIONERS OF 1875.

HON. N. P. PAYNE,	.	.	.	President.
COL. W. H. HAYWARD,	.	.	.	Citizen Member.
MR. H. W. LEUTKEMEYER,	.	.	.	Citizen Member.
MR. EDWIN HART,	.	.	.	Citizen Member.
DR. F. J. WEED,	.	.	.	Council Member.
J. D. SHANNON,	.	.	.	Secretary.

## COMMISSIONERS OF 1876.

MR. JOSEPH TURNEY,	-	President and Citizen Member.
MR. WM. H. RADCLIFFE,	-	Citizen Member.
MR. JOHN STURZNICKLE,	-	Citizen Member.
MR. NATHAN WRIGHT,	-	Citizen Member.
MR. EDWARD ANGELL,	-	Council Member.
A. J. SPENCER,	-	Secretary.

## COMMISSIONERS FOR 1877.

MR. JOSEPH TURNEY,	-	President.
MR. WM. H. RADCLIFFE,	-	Citizen Member.
MR. JOHN STURZNICKLE, (re-elected),	-	Citizen Member.
MR. NATHAN WRIGHT,	-	Citizen Member.
MR. EDWARD ANGELL, (re-appointed),	-	Council Member.
A. J. SPENCER,	-	Secretary.

## FIFTH BOARD OF FIRE COMMISSIONERS FOR 1878.

MR. WM. H. RADCLIFFE,	President,	term expires April, 1880.
MR. GEORGE GLOYD,	Citizen Member,	" " 1882.
MR. H. L. MELTON,	"	" " 1881.
MR. JOSEPH SLAGHT,	"	" " 1879.
MR. F. G. KAUFHOLZ,	Council Member,	term expires April, 1879.
A. J. SPENCER,	-	Secretary.

During five months of 1878 the business was transacted by the Commissioners of 1877. Mr. Turney's term having expired in April, the citizens elected Mr. George Gloyd to fill the vacancy. Thanks of the Board were unanimously extended to Mr. Turney for the very able manner in which he had discharged his duties as presiding officer for the two years, and the citizens of Cleveland regretted very much that Mr. Turney could not be persuaded to remain another term.

Mr. Nathan Wright, whose services as a Commissioner were highly appreciated by the citizens, as an able man, offered his resignation in May, which was accepted. Mr. Wright's reasons for severing his connection with the Board, were on account of

not being able to devote that amount of time to the Department as he thought its interests demanded, and for the same reasons Mr. Sturznickle's resignation was accepted. Mr. Angell having severed his connection with the Council, Mr. F. G. Kaufholz was appointed in his place ; thus the very efficient Board of 1876 and 1877 was almost entirely dissolved. Mr. Radcliffe being the only one remaining, was chosen to preside over the deliberations of the present Board, which was not organized until June 29th on account of the members in the Council differing in opinion as to whom the persons should be selected to fill the vacancies occasioned by the resignation of Mr. Wright and Mr. Sturznickle. The controversy was finally settled by choosing Mr. Joseph Slaght to take Mr. Wright's place, and Mr. H. L. Melton to occupy the place vacated by Mr. Sturznickle. A vote of thanks was extended to each, Mr. Wright and Mr. Sturznickle for the able manner in which these two gentlemen had served the city.

## STANDING COMMITTEES.

MEN AND DISCIPLINE,	-	-	Messrs. Gloyd and Slaght.
ENGINES AND APPARATUS,	-	-	Messrs. Kaufholz and Gloyd.
BUILDINGS AND REPAIRS,	-	Messrs. Slaght, Kaufholz and Chief.	
HORSES AND HORSE FEED,	-	Messrs. Kaufholz and Gloyd.	
TELEGRAPH,	-	-	Messrs. Melton and Slaght.
WATER AND SUPPLIES,	-	-	Messrs. Gloyd and Melton.
FINANCE,	-	-	Messrs. Slaght, Melton and Radcliffe.



## FIRE DEPARTMENT FORCE.

	SALARY'S PER YEAR.
John A. Bennett, Chief . . . . .	\$2,000 00
James Dickinson, First Assistant Chief . . . . .	1,700 00
H. H. Rebbeck, Second Assistant Chief and Supt. of Telegraph . . . . .	1,600 00
Joseph Speddy, Third Assistant Chief . . . . .	1,500 00
A. J. Spencer, Secretary . . . . .	1,200 00
Thirteen Engineers, each . . . . .	960 00
Thirteen Stokers, each . . . . .	744 00
Thirteen Leading Hosemen, each . . . . .	744 00
Four Captains of Trucks, each . . . . .	960 00
Four Tillermen, each . . . . .	744 00
One Harness Maker . . . . .	720 00
One Line Repairer . . . . .	720 00
Three Telegraph Operators, each . . . . .	720 00
Two Supply Drivers, each . . . . .	720 00
Eighty-three Firemen . . . . .	720 00

About two men to each company are appointed to act as Subs. These men are required to make daily reports and only receive pay for the time they serve in the absence of regular firemen.

There are 141 men in all on the Fire Department force.

George Lowe, Capt. of Hook and Ladder Co. No. 3. and T. J. Bevins, of Engine Co. No. 4, died during the year.

Four men were discharged during the year. One man resigned.

Accidents to the men during the year have been comparatively light. Nicholas Clancy, of Engine Co. No. 9, was unfortunate in having a leg broken by the upsetting of a hose-cart.

George Eichhorn of Engine Co. No. 5, was incapacitated from duty a short time by receiving a strain while working at a fire.

## APPARATUS.

The apparatus of the Department consists of fourteen steamers, of which five are first-class rotaries, and six are second-class rotaries, of the Silsby manufacture; one second-class piston engine, of the Amoskeag manufacture; two third-class piston engines, manufactured by C. Ahrens & Co.; four hook and ladder trucks, provided with latest improved fire extinguishers, ladders, buckets, etc.; three four-wheeled hose carriages; eighteen two-wheeled hose carts; eleven heaters; three heavy open buggies, for Chief and Assistants; three fuel wagons; one wagon used in the Telegraph Department; one patrol wagon (for sale); one aerial ladder, and six exercise wagons.

## HARNESS.

The former Board having purchased the right to manufacture Sullivan's patent harness, all the companies are now supplied with them, and the experience, so far, in using this style of harness, shows a decided improvement over the common style of harness. These harnesses enable the firemen to hitch up much quicker, besides being more beneficial to horses, as the horses are free from incumbrances in their stalls, saving the harness from being broken.

## HORSES.

There are sixty-eight horses required for actual service in the Department, and the veterinarian branch is wholly under the management of the Chief, who personally attends to the treatment of sick and disabled horses. The question of employing a veterinary surgeon, at a salary of \$300 per year, was discussed by the members of the Board at their meeting in June, but the matter created so much strife among the "horse doctors," each one producing convincing arguments why he should be particularly selected to that important position, that the Board, upon due deliberation and careful reflection, decided not to make an appointment; consequently the Chief, in addition to his duties as Chief, continues to perform the duties of a veterinary for the De-

partment, and his superior knowledge of horses enables him to treat them as successfully, if not more so, than any outside party the Board might select. Two thousand, four hundred and eighty dollars were paid during the year purchasing horses, and the price paid, being on an average less than \$175 per head, was very low for the kind of horses bought.

### HOSE.

No. Feet	Kind.	NAME OF MANUFACTURE.
6,400	Carb'l'zd Rubber.	Gutta Percha and Rubber Manf. Co., New York City.
1,700	Rubber.	Improved Process, by Whitehead Bros., Trenton, N. J.
1,200	Rubber.	White Anchor, by B. F. Goodrich & Co., Akron, Ohio.
3,800	Rubber.	White Shield, by Cleveland Rubber Co.
1,400	Cotton.	Peerless, by Blake Hose Co., Boston, Mass.
450	Cotton.	Eureka, by the Eureka Hose Co., New York.
500	Cotton.	Boyd, by Gutta Percha Co.
1,000	Linen.	Unique, by Gutta Percha Co.
450	Linen.	N. E. Linen, by Ross, Turner & Co., Boston, Mass.
16,900		Total number of feet of Hose in the Department.

The question of procuring a hose that is perfectly reliable for a period of more than two years is still an unsettled one. 3,000 feet of the above mentioned hose were purchased during the year for \$2,437 50. Good reliable hose cannot probably be manufactured for less than about 95c. per foot.

## RESERVOIRS CONSTRUCTED IN 1878.

LOCATIONS.	CONTRACTOR.	NO. OF BARRELS.	PRICE PER BARREL.	COST FOR BUILDING.
Broadway and Harvard....	L. F. Beers.....	Not Meas'd.	55c	\$ 400 00
Madison and St. Clair	L. F. Beers.....	810	51c	408 00
Claassen and Reid ....	H. F. Marshall..	651	55c	358 05
Tioga, near Turney Ave...	H. F. Marshall..	806	60c	480 00
Gordon and Lawn .. .. .	H. F. Marshall..	801	55c	440 00
Evergreen and Waterman.	L. F. Beers....	Not Meas'd.	49c	Not pd. for
Total .....				\$2,086 05

The contract for building reservoirs is made for 800 barrels and each contract specifies that only 800 will be paid for and when a reservoir measures less than 800 barrels then there is to be deducted the pro rata.

The Harvard Street reservoir is filled from a spring and on account of its keeping full it is not yet plastered, hence the deduction of \$40 until it shall be finished. Also the one at the corner of Evergreen and Waterman fills itself and the contractor, Mr. Beers, allows the Fire Department to use it until such times as will enable him to complete it.

The table showing the location of all the reservoirs in the city will show about 120 reservoirs and the average price for constructing being \$400 each, it is evident the city of Cleveland has buried in earth over \$48,000. Until recently the city has paid one dollar per barrel for building reservoirs.

## FIRE ALARM TELEGRAPH.

The annexed report by Supt. H. H. Rehbeck, will show to what extent this branch is used :

## STATEMENT OF ALARMS AND CAUSES IN 1878.

CAUSE.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Total.
Carelessness.....	7	2	3	1	2	3	.....	1	3	2	4	4	32
Defective Flues..	3	2	3	2	2	2	.....	3	1	4	2	5	29
Sparks .....	1	1	1	5	9	9	2	3	3	2	4	.....	40
Lamp Explosions .....	1	.....	.....	.....	.....	1	1	.....	.....	1	2	1	7
Explosions of Gasol'e Stoves	3	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	4
Ignition of Gas...	2	1	1	.....	.....	1	2	1	.....	2	1	.....	11
Incendiary.....	1	4	1	4	2	6	1	2	1	1	1	3	27
Carelessness with Oil.....	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	1
Accidental.....	2	4	.....	.....	.....	.....	3	3	1	1	1	.....	15
Unknown.....	4	3	8	6	6	3	1	.....	5	8	1	4	49
Chimneys Burning.....	.....	3	1	3	1	2	.....	1	.....	.....	1	1	13
Defective Ovens.....	.....	1	.....	1	.....	.....	1	.....	.....	.....	.....	.....	3
Friction.....	.....	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	1
Leaky Still.....	.....	.....	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	1
Lightning.....	.....	.....	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	1
Spontaneous Combustion..	.....	.....	.....	.....	1	.....	.....	.....	1	.....	.....	.....	2
Carelessness with Matches.	.....	.....	.....	.....	.....	1	1	.....	.....	.....	.....	.....	2
Children playing with m'tchs	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	2	.....	3
Oil on the River.....	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	1
Acid Ignition .....	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	.....	.....	1
Defective Furnace .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	2	.....	.....	2
Defective Grates.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	2	.....	.....	2
Number of actual Fires ....	24	21	20	23	25	28	13	14	16	26	19	18	247
Alarms for outside the City.	1	.....	.....	.....	.....	3	.....	.....	3	.....	.....	.....	7
False, three of which were malicious.....	2	2	1	1	1	1	.....	.....	1	.....	1	2	12
Total number of Alarms ....	27	23	21	24	26	32	13	14	20	26	20	20	268

## STATEMENT OF LOSSES AND INSURANCE, 1878.

MONTHS.	LOSS.	INSURANCE.
January .....	\$ 2,298 00	\$ 15,100
February.....	4,552 24	70,300
March.....	102,089 85	98,600
April.....	14,094 87	30,300
May.....	8,853 00	70,700
June .....	1,498 75	69,480
July.....	2,521 00	8,600
August .....	5,091 65	18,300
September.....	11,583 75	33,835
October... ..	3,963 00	60,600
November .....	3,584 40	11,750
December .....	47,706 94	125,332
Total .....	\$207,896 95	\$612,867

The records of the Department show that from the year 1864 to 1879 the greatest loss occurred in 1874, with 285 alarms and \$641,506 loss. The least loss occurred in 1877, with 320 alarms and \$25,910 loss.

The most destructive fires during the year occurred in March and December. On the 19th of March at 11:56 P. M., an alarm was sounded from Box 10, and the Atwater Block, a brick building four stories high, located on the corner of Merwin and Superior streets, was discovered in flames. The "Non-Explosive Lamp Co." being located in the building and the machinery being very expensive, the loss on goods, machinery and building amounted to \$87,200.

December the 14th, at 1:50 A. M., H. B. Payne's brick building, occupied by Short & Forman, as book binders and fancy stationers, at 105 and 107, Superior street, was discovered to be on fire. Before an alarm was given the flames had made such progress that it required more than ordinary judgment and

skill to direct, in order to prevent a general conflagration. Ass't Chief Dickinson was found equal to the emergency—Chief Bennett was detained at home on account of sickness—and our efficient firemen kept the fire confined within the walls so that the goods and building were damaged only \$29,180 The stock of goods being of a costly material, the smoke did a large amount of damage to expensive stationery. So dense was the smoke that two kittens and two dogs, boxed for shipment, and placed near the parties who were sleeping in the store, were smothered before they could be got out.

RECEIPTS AND DISBURSEMENTS.

	DISBURSEMENTS.	RECEIPTS.
January's Disbursements and Receipts...	\$ 21,226 15	\$ 31 00
February's " " "	9,308 03	131 25
March's " " "	16,963 17	184 75
April's " " "	13,176 31	642 54
May's " " "	13,793 94	128 50
June's " " "	11,669 14	121 09
July's " " "	11,648 72	
August's " " "	11,063 42	500 60
September's " " "	10,992 57	241 05
October's " " "	15,547 44	125 90
November's " " "	10,644 27	234 0
December's " " "	12,444 18	
Special Taxes Charged to the Fire Department.....	1,373 10	
Total Amount of Disbursements .....	159,970 44	
Balance on Hand, January 1, 1879.....	33,028 73	
Balance on Hand, January 1, 1878.....		36,865 91
First Tax Estimate, Collected in April .....		98,151 93
Second Tax Estimate, Collected in August .....		58,180 63
Total.....	\$193,500 17	\$193,500 17

The actual amount disbursed during the year, \$159,970 44, includes \$21,226 15 paid for claims which were approved by the Board in October and November, 1877, and not paid till January, 1878.

The claims for December being paid in January, leaves a balance on hand credited to the Fire Department Fund, January 1st, 1879, of \$33,628 73.

The following table will show the running expenses of the Department to be \$144,034 56, including the payment of \$1,373 10 special taxes, the purchasing of one new Lotta Engine, manufactured by C. Ahrens & Co., of Cincinnati, O., for \$3,800; one new four-wheeled Hose Carriage, manufactured by the Caswell Improved Coupling Co., of Chicago, for \$475; one new Extension Ladder for \$157 50, and 3,000 feet of cotton and linen hose for \$2,437 50; and constructing six Reservoirs for \$2,086.

This is evidence that the Department has been managed with the strictest economy, and no unnecessary outlays have been made. It is true something might have been saved if the Commissioners had thought it advisable to have reduced the salaries of the officers and men; but when we consider that the Cleveland Fire Department has for its officers, men of long experience, and those who have learned the trade thoroughly, men who are capable, and who manage fires better than any other department in the world, it would be improper for the citizens of Cleveland, Ohio, to ask Chief Bennett, his Assistants and the men in the Department, to risk their lives and give their time for any less than what they now receive.



# ND ORDERED PAID IN 1878.

MISCELLA- NEOUS SUPPLIES.	OFFICE EXPENSES.	CONTINGENT EXPENSES.	RESERVOIRS AND REPAIRS.	FIRE ALARM TELEGRAPH.	TOTAL AMOUNTS.
\$ 482 58	\$11 50	\$ 6 00	\$ 19 32	\$ 120 73	\$11,433 41
381 86	.....	58 47	.....	121 76	11,782 51
116 27	12 50	17 40	38 70	54 44	10,668 71
376 40	.....	6 88	927 67	198 86	13,947 11
142 98	1 80	55 24	.....	224 30	11,757 65
130 80	.....	172 90	808 00	108 42	11,949 74
61 49	4 50	116 92	448 90	4 35	11,069 64
398 33	13 20	71 90	57 24	102 25	11,009 08
136 36	15 98	77 80	31 30	448 92	15,484 70
98 59	.....	18 87	170 35	64 24	10,715 75
78 53	.....	99 14	19 32	195 81	12,361 00
87 20	.....	53 64	133 85	290 08	11,855 26
\$2,491 39	\$59 57	\$754 56	\$2,654 65	\$1,934 16	\$144,034 56



# COMPARISON.

By comparing this Department with the Fire Department in New York we find considerable difference in salaries.

## COMPARISON.

NEW YORK.		CLEVELAND.	
V. C. King (Commissioner), Pres	\$ 7,500	Wm. H. Radcliffe (Com.) Pres't	\$ 0,000
J. L. Perley, " . . . .	5,000	George Gloyd, " . . . .	0,000
John J. Gorman, " . . . .	5,000	Joseph Slaght, " . . . .	0,000
Carl Jussen, Secretary . . . . .	3,000	H. L. Melton, " . . . .	0,000
Chas. DeF. Burns, Ass't Sec'y	1,600	F. G. Kaufholz, " . . . .	0,000
E. Savage, Bookkeeper . . . . .	2,500	A. J. Spencer, Secretary . . . . .	1,200
W. P. Allen, Clerk. . . . .	1,800		
W. H. James, " . . . .	1,500		
John R. Shields, Clerk . . . . .	1,300		
David Graham, " . . . .	1,200		
M. F. Cummings " . . . .	1,200		
Jos. Munday, " . . . .	1,200		
Frank Watkins, " . . . .	1,200		
A. Fuller, Supply Clerk . . . . .	1,500		
Jas. Cummings, Record Clerk	1,300		
M. J. Phelan, Janitor . . . . .	1,500		
Bonnell & Sullivan, Watchmen,	1,000		
Frank L. Ives, Medical Officer..	1,500		
M. S. Buttles, Ass't " " . . .	1,200		
Total . . . . .	\$42,600	Total . . . . .	\$ 1,200

## BUREAU OF CHIEF OF DEPARTMENT.

NEW YORK.		CLEVELAND.	
Eli Bates, Chief.....	\$4,700	J. A. Bennett, Chief.....	\$2,000
Chas. O. Shay, Asst.....	3,000	James Dickinson, 1st Ass.....	1,700
Gilbert J. Orr, Chief of Batal'n	2,500	H. H. Robbeck, 2d Asst.....	1,600
Wm. Rowe, Chief of 1st Battal'n	2,500	Joseph Speddy, 3rd Asst.....	1,500
Hugh Bonner, " 2d "	2,500		
Robert King " 3d "	2,500		
John W. Miller, " 4th "	2,500		
B. A. Giequel, " 5th "	2,500		
E. W. Wilhelm, " 6th "	2,500		
S. Campbell, " 7th "	2,500		
J. S. Fisher, " 8th "	2,500		
W. W. Rhodes, " 9th "	2,500		
Total.....	\$33,700	Total.....	\$6,800

## BUREAU OF COMBUSTIBLES.

NEW YORK.		CLEVELAND.	
Peter Seary, Inspector.....	\$2,500		
Surveyor .....	1,200		
Assistant Surveyor.....	1,200		
Chief Clerk.....	1,500		
Two Assistant Clerks, each.....	1,200		

## BUREAU OF FIRE MARSHAL.

NEW YORK.		CLEVELAND.	
Geo. Sheldon, Marshal .....	\$2,500		
First Assistant.....	1,500		
Second Assistant.....	800		
Two Clerks, each.....	1,200		

# BOARD OF FIRE COMMISSIONERS.

443

## SUPERINTENDENT OF HORSES.

NEW YORK.		CLEVELAND.	
T. Elliott, Superintendent.....	\$1,500	John A. Bennett, Chief..	Paid as Chief
Habberlin, Foreman.....	1,200		
Six Stablemen, each.....	720		

## ENGINE COMPANIES.

NEW YORK.		CLEVELAND.	
Foreman . . . . .	\$ 1,500	Engineers.....	\$ 960
Ass't Foreman.....	1,300	Stokers and Hosemen, each...	744
Engineers of Steamers.....	1,300	Firemen, each.....	720
Stokers, each.....	1,250		
Firemen, each.....	1,200		
Privates, each . . . . .	800		

## HOOK AND LADDER COMPANIES.

NEW YORK.		CLEVELAND.	
Foreman.....	\$ 1,500	Captain.....	\$ 960
Ass't Foreman.....	1,300	Tillerman. . . . .	744
Firemen, each.....	1,200	Firemen, each . . . . .	720
Privates, each.....	800		

## FIRE ALARM TELEGRAPH.

NEW YORK.		CLEVELAND.	
John Emerick, Supt . . . . .	\$ 2,500	H. H. Rebbeck, Supt., paid as 2d A. Ch'f	
J. E. Smith, Chief Operator...	1,680	Geo. E. Bennett, Operator....	\$ 720
Three Operators, each....	1,380	Rothgarry, " . . . .	720
Four Ass't Operators, each....	1,200	Barlow, " . . . .	720
Batteryman.....	1,000	Hawley, Line Repairer.....	720
Ass't Batteryman.....	800		
Six Line Repairers, each.. . . .	800		
Ten Tower Watchmen, each...	800		

## REPAIR SHOPS.

NEW YORK.		CLEVELAND.	
Win. Lamb, Inspector....	\$2,000	John Blanvelt, Harness Maker	\$720
Store Keeper.....	1,500		
Foreman.....	1,500		
Two Clerks, each.....	1,200		

## SUMMARY STATEMENT.

NEW YORK CITY HAS	CLEVELAND CITY HAS
Forty-three Engine Companies with 12 Men in each Company.	Thirteen Engine Companies with 8 Men in each Company.
Eighteen Hook and Ladder Companies, 10 Men in each Company.	Four Hook and Ladder Companies, 9 Men in H. & L. Co. No. 1, 5 Men in H. & L. Co. Nos. 2, 3 and 4.
Four Chemical Engine Companies, 4 Men in each Company.	

The above comparison is made to show that the city of Cleveland does not pay any too much to those men who risk their lives to protect the property; and it is an acknowledged fact that, owing to the efficiency of our Fire Department, Cleveland has suffered as small losses by fire in comparison as any other city in the United States.

It will be seen by the above comparison that New York City pays \$17,500 yearly to three Fire Commissioners, while it costs the city of Cleveland nothing for five good business men, who constitute the Board in this city. While New York may possibly be a little extravagant in paying large salaries, the tax payers of the city of Cleveland can have no just reason to complain, especially on account of enormous salaries paid to her Fire Commissioners.

During the year the members of the Board give a considerable portion of their time in looking after the interests of the Fire Department, and it would seem no more than just that they should receive a reasonable compensation for their services.

When a Board is organized, as in the present case, with men of ability, it is essential to the taxpayers to continue these men in office as long as they are willing to serve, as it costs too much to make changes. It takes some time to learn economy, without impairing the efficiency of the Department.





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## COMPARATIVE LOSSES AND FIRES SINCE APRIL 1, 1864.

	DATE	YEAR.	FIRES.	LOSSES.
To April....	1	1865	68	\$261,341 48
" " .....	1	1866	56	173,990 62
" " .....	1	1867	111	206,942 82
" " .....	1	1868	144	300,441 76
" " .....	1	1869	149	196,984 19
" " .....	1	1870	143	378,635 61
" " .....	1	1871	149	300,453 71
" " .....	1	1872	196	153,198 53
To December.....	31	1872	144	309,725 72
" " .....	31	1873	157	348,410 64
" " .....	31	1874	285	641,506 35
" " .....	31	1875	284	137,122 66
" " .....	31	1876	274	253,558 75
" " .....	31	1877	320	25,910 50
" " .....	31	1878	266	207,836 95

## COMPARATIVE EXPENSES SINCE 1874.

YEAR.	No. of Min. Men.	No. of Firemen.	No. of Houses.	Disbursed.	Running Expenses.
1874.....	2	116	10	\$161,991 64	\$138,267 39
1875 .....	54	98	11	170,976 59	140,705 71
1876.....		143	11	149,894 72	136,153 87
1877.....		143	13	156,019 12	147,340 00
1877, Unpaid Accounts.....				17,490 88	
1878.....		143	13	159,970 44	144,034 56

The running expenses are determined as nearly as possible by deducting from the amount disbursed the expense of building new houses, purchasing real estate, the paying of former claims,—as in 1874 Engine House No. 4 was constructed at a cost of \$20,000, while in 1877 Engine Houses Nos. 12 and 13 were built for \$6,600 each.

## SOME ITEMS OF EXPENSES IN 1874.

Building Engine House No. 4.....	\$20,000 00
Real Estate.....	789 25
Extinguisher.....	180 00
2,000 feet of Hose.....	2,125 00
Building one Reservoir.....	651 00
Purchasing of Telegraph Poles.....	583 00
Purchasing of Telegraph Instruments.....	2,755 00

## SOME OF THE EXPENSES OF 1875

Were for Bills contracted in 1874 and paid in 1875.

Reservoirs in Eighteenth Ward and one at Cedar and Stark avenues..	\$ 3,161 01
Reservoirs on Petric street.....	451 00
Lots in the Seventeenth and Eighteenth Wards.....	9,000 00
Oats and Coal .....	2,053 34
Amoskeag Steam Fire Engine.....	4,500 00
Estimate on Engine House No 11.....	9,405 39

## SOME OF THE EXPENSES IN 1876.

Real Estate.....	\$ 2,267 06
Estimates on Engine House No. 11.....	2,658 61
Hose bought in 1875... ..	7,750 00
Patrol Wagon.....	450 00
Three Automatic Relief Valves .....	450 00
Printing Annual Report.....	222 50
Sewerage... ..	214 58

## SOME OF THE EXPENSES IN 1877.

Erecting two new Engine Houses, 12 and 13 ... ..	\$13,200 00
Purchasing one Siksby third-class Engine.....	3,850 00
Purchasing one Chris Ahrens third-class engine.....	4,200 00
Purchasing one Aerial Ladder.....	1,200 00
Exchanging Engines and set of Wheels.....	750 00
Right to manufacture Patent Harness.....	450 00
Laying Cable across Cuyahoga River . . . . .	315 00
Two Hose Carriages... ..	1,210 00

## SOME OF THE EXPENSES OF 1878.

Claims approved in October and November, 1877.....	\$21,236 15
Special taxes charged to the Fire Department Fund.....	1,373 10
Third-class Lotta Engine built by C. Ahrens & Co. ....	3,800 00
One Hose Carriage bought of Caswell Improved Coupling Co.....	475 00
One Bangor Extension Ladder.....	157 50
3,000 feet of Cotton, Linen and Rubber Hose.....	2,437 50
Constructing six Reservoirs... ..	2,066 00
Horses.....	2,480 00

In 1876 and 1877 several of the engine houses were repaired at considerable expense by enlarging, changing stalls, painting, &c.; also in 1876 the Commissioners fitted up in an attractive manner room No. 13 in the City Hall, and in 1878 room No. 11 was painted, grained, and frescoed, so that now strangers visiting our city can be pleasantly entertained.

## ESTIMATED VALUE OF HOUSES AND LOTS.

NO. OF HOUSES.	FEET FRONT.	FEET DEEP.	VALUE OF LOT.	VALUE OF HOUSE.	TOTAL VALUE.
Engine House 1 ....	66	161	\$36,000 00	\$20,000 00	\$56,000 00
" " 2.....	41¾	80	12,300 00	8,000 00	20,300 00
" " 3. ....	22 1½	100½	2,200 00	5,000 00	7,200 00
" " 4 ...	60	101½	6,000 00	15,000 00	21,000 00
" " 5.	40	137½	2,400 00	2,000 00	4,400 00
" " 6.....	40	138½	4,000 00	8,000 00	12,000 00
" " 7.	42	60	2,100 00	6,000 00	8,100 00
" " 8.	50	250	3,000 00	5,000 00	8,000 00
" " 9 ....	70	163½	5,250 00	12,000 00	17,250 00
" " 10.....	100	200	5,000 00	12,000 00	17,000 00
" " 11. ....	80	100	1,200 00	10,000 00	11,200 00
" " 12.....	42	125	1,680 00	8,000 00	9,680 00
" " 13.....	50	150	2,250 00	8,000 00	10,250 00
Total .....					\$202,380 00

## ESTIMATED VALUE OF ENGINES.

LOCATION OF ENGINE AT WHAT HOUSE.					WHEN PUT IN SERV- ICE.	COST.	PREB. VALUE.
At Eng. House No. 1, manuf'd by Silsby & Co.....					1868	\$6,000	\$3,000
"	"	2,	"	Amoskeag Man'f Co.	1872	4,500	4,000
"	"	3,	"	Silsby & Co.....	1871	6,000	3,000
"	"	4,	"	" "	1873	5,500	4,500
"	"	5,	"	C. Ahrens & Co....	1877	4,200	4,200
"	"	6,	"	Silsby & Co....	1873	5,500	4,500
"	"	7,	"	" "	1874	5,000	3,000
"	"	8,	"	C. Ahrens & Co....	1878	3,800	3,800
"	"	9,	"	Silsby & Co.....	1863	6,000	3,000
"	"	9,	"	" " (extra)...	1863	3,500	2,500
"	"	10,	"	" "	1862	3,250	2,500
"	"	11,	"	" "	1877	4,700	3,500
"	"	12,	"	" "	1877	3,750	3,750
"	"	13,	"	" "	1867	4,500	3,500

Steamer No. 1—Located at the corner of St. Clair and Academy streets, Fire Department Headquarters, is a first-class rotary engine, built by the Silsby Manufacturing Co. of Seneca Falls, N. Y., was placed in service in October, 1868, and was known as the "Amos Townsend." It being ten years old, would indicate that a new one might with propriety be purchased in its stead.

Steamer No. 2—Located on Champlain street, is a second-class piston engine, built by the Amoskeag Manufacturing Co., Manchester, N. H.; was placed in service January, 1872, and was known as the "Charles Otis." It is still in good repair and considered a good engine.

Steamer No. 3—Located on Huntington street, near Garden, is a first-class rotary engine, built by the Silsby Manufacturing Co., was placed in service in November, 1871, and was known as the "F. W. Pelton."

Steamer No. 4—Located at the corner of Church and State streets, is a first-class rotary engine, built by the Silsby Co., was placed in service in March, 1873, and was known as the "John Martin."

Steamer No. 5—Located on Phelps street, near St. Clair, is a third-class piston, built by C. Ahrens & Co., Cincinnati, O., and placed in service in May, 1877.

Steamer No. 6—Located at the corner of Lorain and Brainard streets, is a second-class rotary, built by the Silsby Manufacturing Co.; was placed in service March, 1873, at Engine House No. 2, afterwards transferred to 6's house, and was known as the "Silas Merchant."

Steamer No. 7—Located on Forest street, near Garden, is a second-class rotary, built by the Silsby Manufacturing Co.; was placed in service in April, 1874, at 5's house, and was known as the "N. P. Payne."

Steamer No. 8—Located on Scranton avenue, is a third-class piston, built by C. Ahrens & Co., Cincinnati, O., was placed in service in October, 1878.

Steamer No. 9—Located on Willson avenue, is a second-class rotary, built by the Silsby Manufacturing Co.; went into service May, 1863, at Engine House No. 4, afterwards transferred to Engine House No. 6, then to No. 11, and then to its present location.

Steamer No. 10—Located on Doan street, is a second-class rotary engine, built by the Silsby Manufacturing Co.; placed in service November, 1862, at No. 1's house, then went to 5's house, then to 9's house, and then to its present place, and it is known as the "I. U. Masters."

Steamer No. 11—Located at the corner of Sawyer and Home streets, Eighteenth ward, is a second-class rotary, built by the Silsby Manufacturing Co., and exchanged with that company in 1877 for an old engine known as the "George B. Senter." This engine had been used by the city for some time as an extra engine.

Steamer No. 12—Located on Weaverly avenue, near Lorain street, is a third-class rotary, built by the Silsby Manufacturing Co., and placed in service in May, 1877.

Steamer No. 13—Located on Broadway, near Petrie street, is a first-class rotary, built by the Silsby Manufacturing Co., and placed in service September, 1867, and was known as the "James Hill."

Extra Engine—Is a second-class rotary, built by the Silsby Manufacturing Co., and placed in service January, 1873, and known as the "Wm. Meyer."

#### HOOK AND LADDER TRUCKS, ESTIMATED VALUE.

NUMBER.	WHERE LOCATED.	MANUFACTURER'S NAME.	WHEN PUT IN SERVICE.	EST. VALUE.
Truck No. 1,...	Eng. House No. 1.....	Wm. Gabriel & Sons..	1873	\$2,000
" " 2,...	" " 4,	E. B. Leverick..	1872	2,000
" " 3,...	" " 9,...	C. E. Hartshorn.....	1873	2,000
" " 4,...	" " 11,...	Pine & Hartshorne...	1855	2,000
Aerial ladder.....	" " 1,...	M. Scott Uda.....	1877	1,200



## ESTIMATED VALUE OF PROPERTY IN FIRE DEPARTMENT USE.

3 four-wheeled hose carriages.. .. .	\$ 1,800
18 two-wheeled hose carts.....	3,600
11 heaters .....	1,100
1 protection wagon (for sale) .....	400
3 open buggies.....	450
3 fuel wagons.....	150
1 general delivery .....	40
1 telegraph wagon.....	10
21 double harness, at \$40.....	840
24 single harness, at \$20. ....	480
28 stoves.....	650
70 horses.....	10,500
75 horse blankets, (heavy).....	400
4 buffalo robes for Chief and Assistants.....	36
40 whips.. ..	40
25 hay forks.....	25
12 selves.. ..	6
28 shovels.....	28
12 saddles.....	24
150 bedsteads.....	1,000
150 hair mattresses.....	1,000
150 husk mattresses.....	200
600 bed blankets.....	1,500
150 counterpanes .....	150
450 sheets.....	200
300 pillow slips.....	50
300 pillows... ..	400
100 towels. ....	25
13 tables .....	100
28 oil cans.. ..	13
17 sprinklers. ....	17
13 jack screws.....	130
17 hatchets.....	8
1 set of expanders and wrenches.....	70
17 wheelbarrows.....	20

## ESTIMATED VALUE OF PROPERTY—CONTINUED.

17 baskets .....	17
17 step ladders .....	45
17,000 feet of hose .....	15,600
600 feet of garden hose .....	70
	\$ 15,977

## TELEGRAPH DEPARTMENT.

17 instruments.....	\$ 425
14 instruments .....	350
12 instruments (police).....	240
200 Cells grove batteries and stands.....	500
224 Cells colland batteries and stands.....	336
1 register .....	50
3 galvanometers.....	15
157 alarm boxes.....	19,025
160 miles fire alarm line.....	8,000
35 miles talking line.....	1,750
35 miles talking line (police).....	1,750
	\$ 33,041

## VALUE OF RESERVOIRS.

120 reservoirs.....	\$48,000
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## RECAPITULATION OF PROPERTY VALUE.

Value of engine houses and lots .....	\$ 202,980
“ “ engines.....	48,750
“ “ hook and ladder trucks and aerial ladder.....	9,200
“ “ miscellaneous articles.....	41,192
“ “ 120 reservoirs.....	48,000
“ “ telegraph line instruments, etc. ....	33,041
<b>Total value of property (estimated).....</b>	<b>\$383,163</b>

An accurate inventory of all the articles in each engine house would not only consume time to obtain, but would hardly pay expenses to have published in this Report. There are quite a number of small articles used in the Department not included in the estimated valuation, such as tools, a pound or so of thread, one-half pound of beeswax, three or four stifle boots, halters, wrenches, crow-bars, shovels, coal-hods, water pails, brooms, sponges, chairs, etc., etc.

It cost the city of Cleveland \$262 for printing extra copies of the Annual Report of the Fire Department for 1875. It contains a great deal of information, but the citizens, somehow, don't care to be taxed for such information, and very few will take the time to examine these reports when printed.



# Fire Alarm Telegraph.

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## SUPERINTENDENT'S REPORT.

*To John A. Bennett, Chief:*

SIR:—In accordance with the rules of the Fire Department, I herewith submit my Annual Report in detail for the telegraph branch of the Department for 1878.

The lines and instruments have all worked well during the year with the exception of being obstructed sometimes by so many trees in the streets, which come in collision with the wires in the summer months, and property owners object to having them trimmed. I would suggest the passage of an ordinance regulating the trimming of trees so that the line will not be obstructed. Unless some arrangements are made soon, serious damage may result therefrom.

One new street-box has been added during the year, making 157 boxes in all.

Two receiving instruments have been placed in station houses for the benefit of the Police Department, one in the Seventh Precinct Station, and one in the Eighth Precinct Station.

New poles have been set on St. Clair street, and new wire will be put on in the spring and the old wire, which is now on the tops of houses, unreliable, will be taken down. I would suggest the same be done in the business part of the city, as some of the wire on house tops is unreliable in case of a storm of sleet.

I would also suggest that the City Council pass an ordinance causing parties who remove buildings from one point to another, and when said buildings being removed necessitate the changing of the line, that said parties who are benefited thereby shall

defray all expenses incurred by the changing of the wires instead of the city furnishing men to make the changes.

I would also renew my former suggestion in regard to striking some large bell in the city by an electro-mechanical apparatus, so as to give a better outside alarm to the public.

The police lines still continue to give entire satisfaction and work well, as there have been 8,964 messages sent over them, besides a large number not recorded.

Some changes have been made on the line during the year. The wires on the old station house, Euclid avenue, have been changed to the new station house at the corner of Euclid and Willson avenues, and the wires have been removed from the house tops on Oregon street and placed on new poles on St. Clair street.

The setting of poles, the changing of wires, cutting wires, and all general outside repairs have been done by members of the Fire Department, the Police Department paying expenses for repairs on their lines.

The annexed tables will show the number of alarms given for each hour of the day, each day of the week, day of the month, number of box, and location of boxes.

Respectfully submitted by

H. H. REBBECK.

*Supt. of Fire Alarm Telegraph.*

TABLE SHOWING THE NUMBER OF ALARMS FOR EACH HOUR OF THE DAY.

DATE--1878.	MORNING.												Total Morning.	AFTERNOON.												Total Afternoon.	Total.
	MORNING.													AFTERNOON.													
	1	2	3	4	5	6	7	8	9	10	11	12		1	2	3	4	5	6	7	8	9	10	11	12		
January.....	3	1	.....	.....	.....	4	2	.....	3	1	1	2	17	.....	1	.....	1	1	1	3	1	.....	1	1	10	27	
February.....	.....	1	1	.....	1	.....	.....	1	1	.....	1	1	7	.....	3	1	1	.....	4	2	.....	3	1	1	17	24	
March.....	6	1	.....	.....	.....	1	1	3	.....	1	.....	1	14	.....	1	2	.....	.....	1	.....	1	1	1	3	10	24	
April.....	2	2	2	2	1	.....	1	.....	1	1	2	1	15	.....	1	2	2	1	1	3	2	1	.....	2	15	30	
May.....	4	1	.....	.....	.....	.....	1	1	1	3	1	2	14	.....	2	.....	1	5	1	.....	2	.....	2	2	16	30	
June.....	1	1	.....	.....	1	1	2	.....	1	2	1	1	11	.....	2	1	1	2	.....	1	4	3	3	1	22	33	
July.....	2	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	3	6	.....	2	2	1	2	.....	.....	1	.....	.....	.....	9	15	
August.....	1	1	.....	.....	.....	.....	.....	.....	2	3	2	.....	9	.....	.....	.....	1	1	.....	1	.....	1	.....	1	6	15	
September.....	1	1	3	.....	.....	.....	2	.....	3	.....	.....	1	11	.....	.....	.....	3	.....	.....	2	1	7	.....	2	17	28	
October.....	.....	2	3	1	.....	.....	.....	1	1	2	.....	1	11	.....	1	3	3	1	1	2	.....	3	1	1	20	31	
November.....	.....	1	.....	.....	.....	.....	2	.....	1	1	1	.....	6	.....	1	.....	.....	2	1	5	1	2	1	.....	14	20	
December.....	1	.....	1	1	.....	.....	.....	.....	2	3	.....	1	9	.....	.....	.....	1	.....	1	4	.....	2	2	.....	11	20	
Total.....	21	12	10	4	3	6	11	6	16	17	10	14	130	.....	13	12	13	8	11	20	18	23	13	11	12	167	297

TABLE SHOWING THE NUMBER OF ALARMS FOR EACH DAY OF THE WEEK.

DAYS.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Total.
Sunday.....	3	6	2	7	8	3	2	1	.....	.....	2	1	35
Monday.....	3	5	2	3	3	8	3	3	8	4	3	2	47
Tuesday.....	3	3	3	7	2	3	.....	1	7	6	.....	5	40
Wednesday.....	3	2	2	1	3	5	3	.....	.....	11	2	4	36
Thursday.....	10	.....	6	5	4	1	2	4	1	8	5	2	48
Friday.....	4	4	3	4	3	7	5	3	5	2	2	1	43
Saturday.....	1	4	6	3	7	6	.....	3	7	.....	6	5	48
Total .....	27	24	24	30	30	33	15	15	28	31	20	20	297





## CLEVELAND FIRE ALARM.

### LOCATION OF BOXES, ETC.

No. of Box.	Location.	Engine	Hook and Ladder	Fire Escape
2	New City Hall. ....	1, 2, 3	1	A
3	Ontario, corner Lake street. ....	1, 2	1	A
4	Engine House No. 1. ....	1, 3	1	A
5	Water, corner Lake street. ....	1, 2, 3	1	A
5	Water, corner St. Clair. ....	1, 2, 4	1, 2	A
6	C. C. C. & I. Round House. ....	1, 2, 4	1, 2	A
7	C. & P. Freight House. ....	1, 2, 4	1, 2	A
8	River, corner Light House. ....	1, 2, 4	1, 2	A
9	River, corner St. Clair. ....	1, 2, 4	1, 2	A
10	Superior, corner East River. ....	1, 2, 4	1, 2	A
1 2	Columbus, corner Centre. ....	1, 2, 6	1, 2	A
1 2	Columbus, corner Voltaire. ....	1, 2, 6	1, 2	
1 2	Merwin, corner British. ....	1, 2, 6	1, 2	
1 3	No. 13 Carter, near Rolling Mill. ....	2, 6, 8	1	
1 4	No. 30 Canal, near Michigan. ....	1, 2, 4	1, 2	A
1 5	Superior, corner Water. ....	1, 2, 3	1, 2	A
1 6	Superior, Corner Bank. ....	1, 2, 3	1, 2	A
1 8	Superior, corner Seneca. ....	1, 2, 3	1, 2	A
1 9	Central police Station. ....	1, 2, 3	1	A
2 1	Engine House No. 2. ....	1, 2, 3	1, 2	A
2 1	Euclid avenue, corner Sheriff. ....	1, 2, 3	1, 2	A
2 3	Scranton avenue, cor. Carter. ....	1, 2, 8	1	
2 4	Central Way, cor. Ohio. ....	1, 2, 3	1	
2 5	Central Market House. ....	1, 2, 3	1	A
2 6	Erie, corner Eagle. ....	2, 3	1	
2 7	Erie, corner Prospect. ....	2, 3	1	A

## LOCATION OF BOXES, ETC.—CONTINUED.

No. of Box.	Location.	Engine	Hook and Ladder	Fire Escape
2 8	Erie, corner St. Clair.....	1, 2, 3	1	
2 9	Walnut, corner Murison.....	2, 3	1	
3 1	Commercial, corner Canal.....	2, 3, 8	1	
3 2	Hill, between Commercial and Cross.....	2, 3	1	
3 4	Erie, corner Woodland Avenue.....	2, 3, 9	1, 3	
3 5	Engine House No. 3.....	2, 3	1	
3 6	Perry, near Prospect.....	2, 3	1	
3 7	Perry, Scovill avenue.....	2, 3	1	
3 8	Perry, near Broadway.....	2, 3	1	
3 9	Woodland avenue, corner Harmon.....	2, 3	1, 3	A
4 1	Scranton avenue, near A. & G. W. Depot.....	1, 2	1	
4 2	Railroad crossing, foot of Wille street....	8, 6	2	
4 3	Railroad crossing, foot of Mill street.....	8, 6	2	
4 5	Police Station on Barber avenue.....	6, 8	2	
4 6	Vega avenue, corner Hitchcock.....	6, 8	2	
4 7	Mill, corner Seymour avenue.....	6, 8	2	
4 8	Scranton avenue, corner Rowley.....	6, 8	2	
4 9	City Infirmary.....	6, 8	2	
5 1	Engine House No. 8, Scranton avenue.....	6, 8	2	
5 2	Literary, corner Professor.....	6, 8	2	
5 3	Jennings avenue, corner Crown.....	6, 8	2	
5 4	Starkweather avenue, corner Merchants avenue...	6, 8	2	
5 6	Central Way, corner Mahoning.....	8, 13	1	
5 7	Central Way, corner Railroad street.....	8, 13	1	
5 8	University, corner Jefferson.....	6, 8	2	
6 1	Corner Broadway and Irving.....	3, 8, 13	3	
6 2	Standard Oil Refinery, Broadway.....	3, 8, 13	3	
6 3	Standard Oil Company's cooper shops.....	3, 8, 13	3	
6 4	Independence, corner Holley.....	8, 13	3	
6 5	Broadway, corner Forest.....	7, 13	3	
6 7	Trumbull, near Forest.....	7, 13	3	
6 8	Broadway, corner Petrie.....	11, 13	4	
7 1	Garden, between Perry and Greenwood.....	3, 7	3	

## LOCATION OF BOXES, ETC.—CONTINUED.

No. of Box.	Location.	Engine	Hook and Ladder	Fire Escape
7 2	Scovill avenue, corner Henry.....	3, 7	3	
7 3	Woodland avenue, corner Irving....	3, 7	3	
7 4	Croton, corner Jackson.....	3, 7	3	
7 5	Croton, corner Forest.....	7, 9	3	
7 6	Forest, near Paper Mill.....	7, 13	3	
8 1	Scovill avenue, corner Maple....	3, 7	3	
8 2	Police Station on Forest.....	7, 9	3	
8 3	Woodland Avenue, corner Case.....	7, 9	3	
8 4	Scovill avenue, corner Kennard .....	7, 9	3	
8 5	Engine House No. 9.....	7, 9	3	
8 6	Willson avenue, corner Sawtell extension.....	9, 13	3	
9 1	Sterling avenue, near Garden.....	3, 7	3	
9 2	Sterling, corner Prospect.....	3, 7	3	
9 3	Cedar avenue, corner Blair .....	3, 7	3	
9 4	Engine House No. 7.....	3, 7	3	
9 5	Prospect, corner Case avenue.....	3, 7	3	
9 6	Euclid avenue, corner Willson avenue .....	7, 9	3	
1 2 1	Whiskey Island.....	1, 4	2	
1 2 3	Center, corner Hemlock.....	1, 4	2	
1 2 4	Main, corner Sycamore .....	1, 4	2	
1 2 5	Center, corner Winslow .....	2, 4	2	
1 2 6	Main, corner Washington...	4, 6	2	
1 2 7	Police Station, Detroit. ....	4, 6	2	A
1 2 8	Malt House, West River street.....	4, 6	2	
1 2 9	Brock, corner Lorain.....	4, 6	2	
1 3 1	Oil Refinery, foot Abbey.....	6, 8	2	
1 3 2	Engine House No. 6 .....	4, 6	2	
1 3 4	Pearl, corner Franklin .....	4, 6	2	
1 3 5	Engine House No. 4.....	4, 6	2	
1 3 6	Franklin, corner Kentucky .....	4, 6	2	
1 3 7	Bridge, corner Fulton.....	4, 6	2	
1 3 8	York, corner Jay.....	4, 6	2	
1 3 9	Jersey, corner Chatham .....	4, 6	2	

## LOCATION OF BOXES, ETC.—CONTINUED.

No. of Box.	Location.	Engine	Hook and Ladder.
1 4 2	Detroit, corner Taylor.....	4, 12	2
1 4 3	Harbor, corner Woodbine... ..	4, 12	2
1 4 5	Randall, corner Lorain.....	6, 12	2
1 4 6	Willie, corner Chatham .....	6, 12	2
1 4 7	Bailey, corner Devine.....	6, 12	2
1 4 8	Burton, corner Buckeye.....	6, 12	2
1 4 9	Harbor, corner Cook.....	6, 12	2
1 5 1	Herman, corner Weddell.....	4, 12	2
1 5 2	Washington, corner St. Paul.....	4, 12	2
1 5 3	Franklin, corner Dare.....	4, 12	2
1 5 4	Lorain, corner Liberty.....	6, 12	2
1 5 6	Junction, corner Ravine.....	6, 12	2
1 6 2	Detroit, corner Gordon avenue.....	4, 12	2
1 6 3	Bridge, corner Courtland... ..	4, 12	2
1 6 4	Lorain, corner Waverly avenue.....	6, 12	2
1 6 5	Lorain, corner Chestnut Ridge street..	6, 12	2
1 7 2	Clark avenue, corner Pleasant.....	6, 12	2
1 7 3	Clark avenue, corner Bergen.....	6, 12	2
2 1 2	Canfield, corner Davenport.....	1, 5	1
2 1 3	St. Clair, between Canfield and Dodge....	1, 5	1
2 1 4	Chestnut, corner Dodge.....	2, 3	1
2 1 5	St. Clair, corner Ross.....	1, 3, 5	1
2 1 6	Police Station, Oregon street.....	1, 3, 5	1
2 1 7	St. Clair, corner Alabama.....	1, 3, 5	1
2 1 8	L. S. & M. S. Machine Shops... ..	1, 3, 5	1
2 3 2	C. & P. Machine Shops....	1, 3, 5	1
2 3 4	Engine House No. 5... ..	1, 5	1
2 3 5	Sterling avenue, corner Payne.....	3, 5	1
2 3 6	Payne avenue, near Wason.....	5, 7	1
2 3 7	Union Steel Screw Works .....	5, 7	1
2 4 1	Corner Payne and Willson avenues .....	5, 7	1
2 4 2	Superior, corner Case avenue....	1, 5	1
2 4 3	Lake, corner Wason.....	1, 5	1
2 4 5	St. Clair, corner Belden avenue .....	1, 5	1

## LOCATION OF BOXES, ETC.—CONTINUED.

No. Box.	Location.	Engine.	Hook & Ladder
2 4 6	St. Clair, corner Willson avenue.. . . . .	1, 5	1
2 5 2	Huntington, corner Superior.. . . . .	2, 3	1
3 1 2	Euclid avenue, corner Dunham... . . . .	7, 10	3
3 1 3	Euclid avenue, corner Giddings... . . . .	7, 10	3
3 1 4	Madison avenue, corner of Euclid... . . . .	7, 10	3
3 1 5	Euclid avenue, corner of Bolton... . . . .	7, 10	3
3 1 6	Engine House No. 10... . . . .	7, 10	3
3 1 7	Euclid avenue, corner Walton street... . . . .	7, 10	3
3 1 8	Hough, corner of Ansel avenue... . . . .	7, 10	3
3 1 9	Hough avenue, corner of Crawford... . . . .	7, 10	3
3 2 1	Scovill avenue, corner of Slater... . . . .	7, 9	3
3 2 3	Woodland avenue, corner of Willcut... . . . .	7, 9	3
3 2 4	Platt street, corner of Carr... . . . .	7, 9	3
3 2 5	Workhouse, Woodland avenue... . . . .	7, 9	3
3 2 5	Hazard Hame Works... . . . .	7, 9	3
3 2 6	Hough avenue, corner of Madison... . . . .	7, 10	3
3 2 7	Madison avenue, corner Superior... . . . .	5, 10	3
3 4 1	Garden, corner Willson avenue... . . . .	7, 9	3
3 4 2	Garden street, C. & P. crossing... . . . .	7, 9	3
3 4 3	Garden, corner Madison... . . . .	7, 9	3
3 4 5	Cedar avenue, corner Lincoln... . . . .	7, 10	3
3 4 6	Cedar avenue, corner Logan street... . . . .	7, 10	3
3 4 7	Cedar avenue, corner Fairmount street... . . . .	7, 10	3
4 2 1	Engine House No. 11... . . . .	11, 13	4
4 2 3	Corner Broadway and Harvard.... . . . .	11, 13	4
4 2 4	Miles avenue, corner Atwater street... . . . .	11, 13	4
4 2 5	Stone, Chisholm & Jones' mills... . . . .	11, 13	4
4 2 6	Union street, near Union Iron Works... . . . .	11, 13	4
4 2 7	Woodland Hills' avenue and Hull.. . . .	11, 13	4
4 3 1	Insane Asylum... . . . .	11, 13	4
4 3 4	Corner Broadway and Fullerton street... . . . .	11, 13	4

**DIRECTIONS.** The number of the Box will be sounded from the Engine Houses as follows: If the alarm comes from Box 5, the bells and gongs will strike five; if from 25, they will strike two, five; if from 121, one, two, one, etc.

Keys to the several Boxes are in possession of responsible parties located nearest each box, and the members of the Police also have keys.

## RESERVOIRS CONNECTED WITH THREE-INCH STOP-COCKS.

Kentucky street, corner of Clinton.	Ohio st., bet. Broadway and Woodl'd.
Duane street, corner of Clinton.	Ohio street, west of Brownell.
State street, south of Detroit.	Cedar st., bet. Perry st. & Sterling av.
State street, corner of Ann.	Fulton street, corner of Lorain.
Pearl street, corner of Detroit.	Hanover st., corner of Washingt'n.
Pearl street, corner of Lorain.	Cedar st., corner of Sterling ave.
Pearl street, corner of Willey.	Harman street, south of Garden.
Columbus street, corner of Abley.	Chatham street, corner of Penn.
Water street, north of St. Clair.	Scovill ave., corner of Forest.
Willson Avenue, cor. Woodland.	Forest street, corner of Burwell.
Bank street, north of Superior.	Perry street, corner of Orange.
Ontario street, south of St. Clair.	Mayflower street, south of Orange.
Bond street, north of Superior.	Franklin street, corner of Liberty.
Erie street, opposite Parkman.	Case ave., corner of Superior.
Muirson street, south of Hamilton.	Lorain street, west of Jersey.
Brownell street, south of Euclid.	Scovill ave., corner of Laurel.
Huntington st., south of Prospect.	Superior street, cor. Sterling.
Liberty street, east of Broadway.	Ocean street, corner of Woodland.
Jackson street, south of Woodland.	Maple Grove, corner of Woodland.
Lake street, corner of Wood.	Bridge street, east of Fulton.
St. Clair street, east of Erie.	Harbor street, corner of Bridge.
Superior street, corner of Union.	Bridge street, corner of Liberty.
Superior st., west of Pub. Square.	Chatham street, corner of York.
Euclid avenue, east of Erie.	Belmont street, north of Croton.
Prospect street, east of Ontario.	Bridge street, west of York.
Prospect street, west of Perry.	Columbus street, at Seymour.
Huron street, east of Erie.	Floyd street, at Jackson.
Cleveland ave., corner of 3d Alley.	Clark ave., at Pleasant.

Hitchcock st., corner of Wade ave.    Jennings ave., cor. of Starkweather.  
 Humboldt street, corner of Croton.    Kelly st., corner of Merchant ave.  
 Kennard st., corner of Scoville ave.    Jackson street, near Croton.  
 Courtland st., corner of Bridge st.    Burton street, corner of Cook.  
 Jennings avenue corner of Crown.    Willson avenue, corner Scoville ave.

#### LIST OF RESERVOIRS NOT CONNECTED.

Hanover street north of Church.	Bailey street corner of Divine street.
Wason street corner of Payne ave.	Weddell st., corner of Washington st.
St. Paul street cor. of Washington st.	Detroit street corner Gordon avenue.
Brooklyn st., corner of Myers ave.	Euclid avenue corner of Bolton.
Chatham st., corner of Mechanic st.	Euclid avenue corner of Bell.
Forest street near Broadway.	Harkness avenue.
Scoville avenue corner of Bomford.	Union avenue.
Liberty street corner of Franklin.	Branch avenue.
Belden street corner of Superior.	Cedar avenue.
Cypress street corner of Superior.	Cedar avenue corner of Bolton.
Peach street corner of Clark avenue.	Quincy street corner of Baden.
Clark avenue corner of Mill street.	Oakland street.
Junction street corner of Ravine.	Herman street corner of Short street.
Waverly avenue near Pearl street.	Hickory street corner of Division.
Green street near Eagle alley.	Clark avenue corner of Gilbert.
Jefferson street corner of Literary.	Doan street at Eng. House No. 10.
Euclid avenue corner of Dunham.	Columbus street at Barber avenue.
St. Clair street near Lyon street.	

#### RESERVOIRS CONSTRUCTED IN 1874.

Cor. of Chestnut Ridge and Lorain st.	Cor. Gaylord street and Harvard st.
Cor. of Walnut st., and Mechanic st.	Cor. Broadway and Jones avenue.
Cor. of Cedar avenue and Stark ave.	Cor. Broadway and Petrie street.
Cor. of Church street and Walnut st.	



## RESERVOIRS CONSTRUCTED IN 1875.

St. Clair street near Lyon street. | Brooklyn at the corner of Myers.

## RESERVOIRS CONSTRUCTED IN 1876.

Miles avenue corner of Atwater st.	Woodland Hills avenue.
Cemetery street corner of Marble st.	Herald street corner of Rollin st.
Center street south of Broadway.	

## RESERVOIRS BUILT IN 1877.

Hamm corner of Wackerling. | Haddock corner of Patton.

## RESERVOIRS BUILT IN 1878.

Claassen corner of Reid.	Madison avenue corner of St. Clair.
Tioga street near Turney avenue.	Gordon avenue corner of Lanon.
Broadway corner of Harvard street.	Evergreen street corner of Waterman.

### CONCLUSION.

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This Annual Report of the Fire Department for 1878 is, perhaps, more voluminous than instructive, but is given, presuming that all superfluous matter will be expunged, and what is regarded as important will be incorporated in the general Annual Report.

The estimated expenses calculated to run the Department during the year 1879 was fixed by the Board, in April, at \$171,000. This amount was considered by the Auditor and Committee on Finance as being entirely too large, and as they thought their knowledge of the requirements for the Fire Department superior to the Board of Fire Commissioners, the levy was cut down to less than two mills on a dollar, which would give to the Fire Department for 1879 about \$136,000.

By the most careful management the present Board have clearly demonstrated that without calculating for accidents which are liable to occur at any time, it will take about \$145,000 yearly to pay the expenses of the Cleveland Fire Department, and it is a wise maxim, "In times of peace prepare for war;" hence all tax levies for the Fire Department should be made calculating that Cleveland is not entirely free from accidents. Several thousand feet of hose may be burned, engine and apparatus are liable to be destroyed, etc., and it matters not how large the Fire Department Fund may be, under the control of the present Board, no more of it will be used than is strictly necessary. The Council acted wisely in voting the tax levy for 1879 not less than two mills, and for the year 1880 the levy ought not to be less than  $2\frac{5}{10}$  mills on the tax valuation of property.

Some of the engines are getting old, and ought to be exchanged for new ones; several extension ladders are needed; one or two chemical engines might be beneficial; the officers and men are not overpaid for their services, for it is written that "A laborer is always worthy of his hire," and no Fire Department in the United States has more efficient officers and men than the Cleveland Fire Department. Should the Council cut down the appropriations so as to impair this efficiency by not furnishing the Board means to supply the Department with proper implements of warfare, then our excellent Department would soon lose its reputation.

In the business portion of the city there certainly ought to be two or three steamers with power sufficient to throw large streams of water, for a large fire is liable to occur at any time, and small streams thrown on to large fires has a tendency to increase the intensity of heat rather than to diminish it, hence the importance of guarding against any extensive fire which is liable to occur.

"An ounce of preventive is worth a pound of cure;" so have the Commissioners regarded the building of wooden structures within the fire limits. Only a few have asked permission to build of wood during the last three months. During the year forty-one permits have been granted to either erect frame buildings or to remodel old ones. The Board dislike to refuse requests to make improvements, but are obliged to do so in many instances in order to protect property. The building of so many small wooden structures among the large buildings is equivalent to putting on kindling preparatory to a large fire.

In July a petition from some of the citizens was presented asking the Board to appoint a Fire Warden, and the Commissioners, after due deliberation, concluded not to impose an extra expense upon the city by making such an appointment, but expressed a willingness to make the appointment providing the Board of Underwriters would pay the salary of such an officer, as they believed the Board of Underwriters would be the most interested.

The contract to furnish coal was awarded to Rhodes & Co., at \$2.05 per ton for Willow Bank, and \$4.63 for Chestnut hard coal.

The Chief engineers of the United States met in convention in the Council Chamber on the 10th of September, and continued in session four days. They were very appropriately received by His Honor, W. G. Rose, the Mayor, and very agreeably entertained by the citizens of Cleveland. Mr. H. F. Brayton, President of the Board of Underwriters, Mr. Buchman, Mr. Charles Gordon, and others, acted in concert with the Board of Fire Commissioners and Chief Bennett in making previous arrangements for their entertainment. The members of the convention honored Chief Bennett by electing him President of their association, and, although the terrible storm prevented an anticipated excursion upon the lake (ample arrangements having been made), yet a large number of our citizens, with the Board of Fire Commissioners, joined them in a splendid banquet, intruding upon the generosity of General L. A. Pierce, who contributed largely to the pleasure of the occasion.

In August the Board, in company with a few invited citizens, made a thorough tour of inspection of all the houses, and were highly pleased to find a system so near perfection among the several companies. The houses were all kept in good order, the men at their posts ready for duty at a moment's warning, and the conditions satisfactory in the highest degree.

The alacrity of the firemen in turning out of bed, hitching up the horses and getting ready to turn out to fires, was truly wonderful. It is all done so quick that one would scarcely believe it possible without seeing it. The time made in hitching up ready for a start is in most all instances about nine seconds, still when a person sees his property burning nine seconds seems to him a long time, and the firemen are often censured for driving so fast to fires. To please all and make no mistakes is among the impossibilities.

And now, gentlemen, the members of the Board desire to thank you for your co-operation in assisting them in the management of one of the most efficient fire departments in the world.

All expenditures made during the year have been cheerfully acquiesced in by your Honorable Body.

By order of the Board.

A. J. SPENCER.

*Secretary.*



EIGHTH ANNUAL REPORT  
OF THE  
DIRECTORS AND SUPERINTENDENT  
OF THE  
WORKHOUSE  
AND  
HOUSE OF REFUGE AND CORRECTION  
TO  
THE CITY COUNCIL OF CLEVELAND,  
FOR THE YEAR 1878.





# *OFFICERS.*

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## **BOARD OF DIRECTORS.**

HARVEY RICE, PRESIDENT.

J. H. WADE,

S. C. BROOKS,

GEO. H. BURT,

WM. EDWARDS.

*Superintendent,*

W. D. PATTERSON.

*Deputy Superintendent of the Workhouse Department,*

JOHN A. MCINTOSH.

*Deputy Superintendent of the Refuge Department,*

.....

*Principal Matron,*

MRS. MARGARET A. PATTERSON.

*Teachers of Refuge Schools,*

.....

ALEXANDER MCBANE.



CLEVELAND, O., Feb'y 10, 1878.

*To the Honorable, the President and Members of the City Council of the  
City of Cleveland, Ohio:*

GENTLEMEN:—As required by law, and per authority of the Board of Directors of this institution, I have the honor herewith to present to your honorable body this, the Eighth Annual Report of the Board of Directors, and Superintendent of the Workhouse, House of Refuge and Correction, together with the Report of the Attending Physician, for the year closing December 31st, 1878, with the request that the same be ordered printed in pamphlet form.

Respectfully yours,

W. D. PATTERSON, *Supt.*



# REPORT

OF THE

## WORKHOUSE DIRECTORS.

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*To the Honorable City Council:*

GENTLEMEN:—We respectfully submit to your honorable body our Annual Report for the year 1878, relative to the Workhouse and House of Refuge and Correction. In doing this we are gratified in being able to state that the success of these conjoint institutions has been, in many respects, more encouraging than in previous years. While as reformatories they have continued to be efficient, they have from their earnings and incomes paid into the City Treasury, during the past year, the sum of \$92,509.47, and have, in fact, become substantially self-supporting.

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### WORKHOUSE DEPARTMENT.

The entire number of convicts who have been imprisoned in this department in the course of the past year, is 1,309; the number discharged, 1,038; the number remaining, 271, which is 63 less than in 1877. This last fact would seem to indicate a diminution of crime as the result of the reformatory power which the institution exercises on the character of its inmates.

The current expenses of the year have been considerably increased by the expenditure of \$9,009.80 in the erection of an additional building for workshops and hospital accommodations, and in making other permanent improvements; and, though the institution has manufactured and sold more goods than in any former year, it has been largely curtailed in its receipts, owing to a decline in prices caused by a severe competition in the market. It is for this reason that the institution has fallen short \$3,687.92 of sustaining itself the past year. Except for these adverse causes the institution would, in all probability, have paid into the City Treasury a surplus revenue of eight to ten thousand dollars.

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#### REFUGE DEPARTMENT.

The whole number of youth who have been confined in this department, in the course of the past year, is 175; the number discharged, 99; the number remaining, 76, but two of whom are girls. This department, from its earnings and incomes, has paid into the City Treasury \$204.46 more than its current expenses for the year, and consequently has become self-supporting for the first time in its history. This result has been achieved, not by abridging the educational advantages of the institution in the least, but by employing the boys in the more profitable industry of manufacturing brushes instead of seating chairs.

This department, known as the Refuge, is simply a school where juvenile delinquents, less than sixteen years of age, are received, not to be punished, but to be reclaimed by educating them, and thus fitting them to become good and useful citizens. While retained as inmates, they are treated with kindness and with parental care; but are held, at the same time, to a faithful discharge of their duties. They are, in fact, a "happy family." Their time is about equally divided between the schoolroom, the workshop and the playground. When

they reach the "roll of honor" they are discharged. Nearly all who have completed the course, and been thus discharged, have gone forth into the world reclaimed, and resolved to lead honest and exemplary lives.

The great defect in the Refuge is the want of a suitable apartment for girls. The average number heretofore sentenced to the Refuge has been from forty to fifty a year. They were received and placed, from necessity, in the department assigned to adult women. But experiment has shown that they cannot be successfully reclaimed while thus exposed to the impure influences of vicious women. This fact has induced the Board to discourage the reception of girls, and to discharge them rather than subject them to such degrading and pernicious influences.

This glaring inconsistency in our Refuge system of discipline is one which ought not only to be promptly rectified, but, if allowed to continue, should arouse a feeling of indignation in the breast of every philanthropic citizen. We therefore trust your honorable body will take speedy action in reference to this matter, and provide for the proper accommodation of this class of wayward young girls, who are becoming numerous, and who cannot be reclaimed unless subjected to a compulsory education. We would here suggest that the required accommodations could be readily furnished by erecting an additional apartment to the Refuge on its easterly side, at a cost not exceeding five or six thousand dollars, which would afford ample room for the probable number of inmates for the next twenty years or more. We will soon be prepared to present your honorable body with plans and definite estimates of the needed addition for your consideration.

## GENERAL REMARKS.

In order to comprehend the industrial system of discipline to which the inmates of both institutions are subjected, and which has proved so satisfactory in its results, it should be borne in mind that these institutions constitute a regular "manufacturing establishment," and, as such, it manufactures on its own account. In other words, it purchases the raw material, combines its labor with it, and puts its goods in market like any other manufactory. It confines itself to the art or trade of brush making. This industry has been selected, because it is simple in its character, and for that reason adapted to unskilled labor. By adopting this industrial system all conflict between prison and free labor has been avoided, while at the same time all the inmates, though impaired in health, can be kept employed and under an influence much better adapted to reform them, than if their labor were let to outside contractors.

For more specific statements relative to the statistics and finances of the Workhouse and Refuge, we would refer your honorable body to the "Annual Report" of the Superintendent, hereto attached. The success which these institutions have achieved is principally due to his faithful and judicious management, assisted by his efficient and vigilant wife as Matron; and in this connection, it is but justice to add that the subordinates have generally discharged their official duties with a fidelity worthy of commendation.

Every step has been taken, that reasonably could be, to make these institutions not only self-supporting, but effective as reformatories. Religious services in the Chapel and Sunday schools have been regularly maintained, and are attended by the inmates with evident interest and profit. The privileges of the library are also appreciated, and, as an auxiliary nothing seems to contribute more than an interesting book to



cheer the solitary hours of prison life, and advance the moral welfare of the convicts.

We cannot conclude without expressing our thanks, as a directory, to the volunteer clergy, the Young Men's Christian Association, and the good Christian women, who have so generously rendered their benevolent services in aid of these reformatory institutions, from time to time, during the past year, and whose teachings have manifestly been productive of the happiest results.

HARVEY RICE,  
J. H. WADE,  
S. C. BROOKS,  
WM. EDWARDS,  
GEO. H. BURT,

*Directors.*



# SUPERINTENDENT'S REPORT.

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*To the Honorable Board of Directors of the Workhouse,  
House of Refuge and Correction, Cleveland, Ohio:*

GENTLEMEN:—In compliance with the act of incorporation I hereby present to your Honorable Board my Annual Report of the operations of these institutions for the year closing December 31, 1878, this being my seventh, and the eighth Annual Report since the organization.

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## POPULATION.

On the first day of January, 1878, there was in confinement in this prison (see table No. 1) two hundred and eighty-two (282) males and fifty-two (52) females, a total of three hundred and thirty-four (334) persons.

During the year nine hundred and seventy-five (975) persons were committed, seven hundred and fifty-three (753) of whom were males, and two hundred and twenty-two (222) being females.

In the same period ten hundred and thirty-eight (1,038) persons were discharged, of whom eight hundred and ten (810) were males, and two hundred and twenty-eight (228) were females, leaving in confinement, December 31, 1878, a total of two hundred and seventy-one (271) persons, two hundred and twenty-five (225) being males, and forty-six (46) being females, showing a decrease of sixty-three (63) persons during the year.

The average number supported for the year was two hundred and sixty and two-thirds ( $260\frac{2}{3}$ ). Of these two hundred and three (203) were males, and fifty-seven and two-thirds ( $57\frac{2}{3}$ ) females (see table No. 6), being an average less than the previous year, in the aggregate, of forty (40) persons. See table.

Annexed I present the financial statements, giving in detail the expenses and gains of these combined institutions for the year. In Exhibit "A" we show our revenue from all sources, together with the balance on hand at the beginning of the year, this being the capital on which we had to work during the year, amounting to one hundred and forty-one thousand, seven hundred and twenty dollars and sixty-eight cents (\$141,720.68).

During the year warrants were drawn upon the City Treasurer by the City Auditor, as per city ordinance, for one hundred and thirty-two thousand, eight hundred and twelve dollars and eighty-eight cents (\$132,812.88), leaving at the close of the year on hand a balance of eight thousand nine hundred and seven dollars and eighty cents (\$8,907.80).

You will please notice that the revenues, or receipts, were for twelve months, and that the disbursements by warrants drawn upon the treasury were for the bills of fourteen months, being for four months in 1877, and ten months in 1878. In the detailed statement, which is a part of this account "A," you have the sources from which receipts of the institution arise, given in detail.

Exhibit "B" shows in detail the property on hand and our liabilities.

Exhibit "C," a statement showing the entire expenses for the year and the gains arising from our manufacturing interests, together with the gains arising from boarding accounts.

In this statement you have the net cost to the city for the entire expenses of the two departments for the twelve months ending Dec. 31st, 1878, the amount being twelve thousand, nine hundred and two dollars and eighty-one cents (12,902.81). When we deduct from this net expense the special and general improvements, amounting, as follows, to :

Special Improvements.....	\$5,399 21
General Improvements.....	3,610 64
	<hr/>
	\$9,009 85

Deducting these improvements from the foregoing net expense, we have a further showing, of a cost only of three thousand, eight hundred and ninety-two dollars and ninety-six cents (\$3,892.96) as against five thousand, eight hundred and forty-six dollars and seventy-one cents (\$5,846.71) for the previous year, being less for 1878 than in 1877, in the sum of nineteen hundred and fifty-three dollars and seventy-five cents (\$1,953.75).

Gains arising from the principal industry (brush making) have not been so great as in the year previous, for several reasons. First, we have had a less number of prisoners than in the previous year, and as a result a diminished production. Second, we have experienced a still further decline in prices of goods manufactured; hence as shown, with less goods for the market, and a less margin of profit, the result is not so gratifying as in our last report.

The extent to which our business might have reached during the year, has only been limited by want of ability to produce, this arising from a diminished number of hands.

At the close of the year 1877 there remained in the hands of the City Auditor, the accumulated bills for four months of the year, unpaid, amounting to the sum of twenty-six thousand, four hundred and fifty-six dollars and twenty cents, (\$26,456.20) with a sufficient balance remaining in the City

Treasury, twenty-eight thousand, seven hundred and thirty-nine dollars and ninety cents (\$28,736.90) to have paid all bills and leave a balance in the treasury.

These four months' bills remained over, and were paid in the current year. These, together with the bills for the twelve months of the present year, as sent to City Auditor, amounting to one hundred and twenty thousand, six hundred and twenty-six dollars and sixty-nine cents, (\$120,626.69) aggregate a total bills for the year (or rather for sixteen months) of one hundred and forty-seven thousand and eighty-two dollars and eighty-nine cents, (\$147,082.89). Warrants drawn as per city ordinance upon the City Treasurer, amounting to (see account "A" one hundred and thirty-two thousand, eight hundred and twelve dollars and eighty-eight cents, (132,812.88), leaves remaining in the hands of the City Auditor two months' bills unpaid, amounting to the sum of fourteen thousand, two hundred and seventy dollars and one cent, (\$14,270.01).

Exhibit "H" is a concise financial showing, as to balance in treasury at the beginning of the year, also the amount realized from the tax levied for Workhouse, and paid into Treasury together with the amount deposited by the Superintendent, as follows:

Jan. 1st, Balance in Treasury .....	\$ 28,739 90
Net Amount of Tax paid in .....	17,537 80
Deposited by Superintendent, 12 months.....	92,509 47

---

Total Fund for the year .....	\$138,787 17
Warrants paid during same time....	132,812 88

---

Dec. 31, 1878, Balance in Treasury.....	\$ 5,974 29
---	-------------

The cash deposits for the year exceed the deposits of the previous year in the sum of nine thousand, eight hundred and eleven dollars and ninety-eight cents (\$9,811.98), thus:

Deposits, 1878.....	\$92,509 47
Deposits, 1877....	82,697 49
	<hr/>
	\$ 9,811 98

**MALE DEPARTMENT.**

The principal industry in this department, and, indeed, for the whole institution, has been in brush making. This work has been carried forward vigorously throughout the year, even to working for several months at night. Our best energies have failed to produce a quantity of goods equal to the demand for them. With a sufficient number of hands we could have largely increased our production, and thereby make a much better showing for the city, at a very small additional expense in the working of the institution.

In the boarding of prisoners convicted under State laws, and paid for by the County Commissioners of Cuyahoga County, and of U. S. prisoners paid for by the U. S. Marshal, and by sundry individuals for individual cases, the receipts have fallen off since last year to the amount of seventeen hundred and ninety-nine dollars and sixty-one cents. (\$1,799.61).

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**SHOE DEPARTMENT.**

We have continued to make and repair shoes for both departments of the institution, also to make and repair for officers and employes who desired to have such work done.

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**PAPER BOX SHOP.**

This branch of our work was discontinued early in the year, and the females who worked this department were all put to brush drawing, excepting those employed in household duties. We have demonstrated that such younger women and girls as are committed here from time to time can become adepts in brush drawing, and thereby aid largely in contributing to their own support.

The usual amount of unproductive labor has been performed by the female prisoners in laundry, house-work, and cooking for officers.

## IMPROVEMENTS.

At the time of our last report the necessity was upon us for more cell room; accordingly early in the year we commenced the work, and fitted up and made ready for occupancy in the east wing of the prison building, thirty new cells.

A new plan of workshops was decided upon, with store rooms and hospital accommodation for males. About May first this work was commenced, and carried to completion. To make room for these shops the barn then in use had to be torn down and a new one built, using, as far as practical, the old material. These shops, store rooms and hospital have supplied a long felt want; they are all complete, spacious and comfortable, and have been done at a cost of fifty-three hundred and ninety-nine dollars and twenty-one cents (\$5,399.21). A very large amount of unproductive labor was accomplished in these improvements by the prisoners, such as excavating, attending masons, carpenter work, painting, etc., all of which labor for the year in improvements, shows no return in cash, yet has been a saving to the city of from one to two thousand dollars.

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HEALTH.

Continued good health and freedom from any alarming contagion has been vouchsafed to our household throughout the year. Four persons have died, (see report of the attending physician).

Those sick or who in any way have required the services of the physician, have had prompt, and as we believe, skillful attention.

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RELIGIOUS SERVICES,

as formerly, have been conducted on the Sabbath days, by ministers of various denominations, and on every alternate Sabbath a Catholic minister has conducted a morning service;



also delegations from the Young Men's Christian Association of this city, as have been their custom for years, have been present on alternate Sabbaths and conducted an afternoon service, generally with great acceptability. All such services are a voluntary offering on the part of those conducting them in the cause of humanity.

A number of the Christian ladies of this city have also visited the females of the institution, holding religious personal conversation, and conducting brief religious services with and for them. Our faith leads us to believe that their labors have been blessed in leading some poor erring sister from error's ways, to paths of truth, virtue and right.

Frequent donations of books and magazines, also papers, have been made us by sympathizing friends, nor have we been forgotten by the ladies of the Flower Mission, as evidenced by the liberal supply of flowers on several occasions distributed among the children, the women and the sick.

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#### A GIRL'S "REFUGE HOME."

There is a great and pressing demand upon the city and her authorities for the providing of a suitable "Refuge Home" for young girls, where they may be entirely separated and kept from the evils consequent upon an association with those older in crime in the Workhouse, (as is now the case, by reason of a want of sufficient and proper accommodations), so that the girls and women should in no way come in contact with each other.

I cannot better state the case than by quoting from my last report to your Honorable Board, as follows :

"In this connection I would call attention to the growing demand, as well understood by this Board of Management and many of our citizens, male and female, for a Refuge Home for Young Girls—a place intermediate between the evils surrounding these young lives in the outside world and a prison

life, which will in the future be theirs if not brought under restraining influences while yet in their youth. It is well understood that we have no place to which these young and wayward girls could be sent, nor indeed do we know of any suitable place in the city where they can be cared for. The action taken early in the year by this Board, wherein you decided, after being thoroughly convinced that this was not a suitable place for such offenders, not to admit any more because of the evil tendencies of their surroundings and associations, was wise and judicious. These girls cannot be trained and cultured, if *here*, for the want of a separate place for them. Then there is the other fact before us, and the whole community, that if they are left to themselves unrestrained, the end can only be early and inevitable ruin.

“What is wanted for this class of persons is a Home. It may be small at first, and increased as the circumstances may demand; where they shall be brought under strict home and Christian influences, with Christian administrators and teachers over them; where they may be taught a common school education, and trained under competent and careful instructors in all the art and mystery of good housekeepers—such as cooking, baking, cutting and sewing, and laundry work—all of which they must acquire if ever prepared for the active duties of after life, in whatever sphere they may be placed, and without which they are unprepared for positions of honor and usefulness in the world.

“This subject is one that should commend itself to the philanthropic of this and all cities. In this, as in all other cases, prevention is better than cure.”

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#### HOUSE OF REFUGE.

In this department the year opened with eighty-seven (87) boys and two (2) girls, in all, eighty-nine (89). Admitted during the year, seventy-six (76) boys and ten (10) girls, in

all, eighty-six (86). Discharged during same time, ninety (90) boys and nine (9) girls, a total of ninety-nine (99), leaving remaining with us December 31, 1878, a family of seventy-three (73) boys and three (3) girls, in all seventy-six (76) children remaining in "House of Refuge," showing a net decrease for the year of thirteen (13).

The following table will show at a glance the population of this department at the close of each year of its existence. Also the increase for four years, and the decrease for three years :

December 31, 1871, remaining	25
" 31, 1872, "	59
" 31, 1873, "	83
" 31, 1874, "	120
" 31, 1875, "	161
" 31, 1876, "	158
" 31, 1877, "	89
" 31, 1878, "	76

The school has been under the same corps of male teachers as in the past, and, as we think, has been well managed for the entire year, and doubt not that much good is being done through this channel.

Again I desire to express my gratitude to the Board of Management for their hearty co-operation, and for wise counsel, and for the uniform kindness extended to myself and family, expressing the hope that so long as we remain together our relations may remain the same—pleasant in all particulars.

W. D. PATTERSON,

*Superintendent.*



# SUPERINTENDENT'S STATEMENTS.

## EXHIBIT "A."

### Statement of Receipts and Disbursements.

1878.

Jan. 1	Cash on hand with City Treasurer .....	\$28,739 90		
	" " " Superintendent.....	5,180 71	\$33,920 61	
Dec. 31	Cash Receipts for year from Workhouse .....	83,786 95		
	" " " " Refuge.....	6,475 32	90,262 27	
	Cash Receipts for year from Taxes.....		17,537 80	
			141,720 68	
	DISBURSEMENTS.			
	Cash paid by Warrants on City Treasurer.....		132,812 88	
	Balance on hand .....		8,907 80	
	Viz: With City Treasurer .....	5,974 29		
	" Superintendent .....	2,933 51	8,907 80	

### Detailed Statement of Receipts.

1878.

	FROM WORKHOUSE.			
Dec. 31	Received for Sales of Brushes, to date ....		\$73,359 97	
	" " " Paper Boxes, " .....		1,241 71	
	" " " Shoes, " .....		172 45	
	" " " Rags, etc., " .....		8 29	
	" " " Meat Bones & Barr'ls " .....		174 62	
	" " " Live Stock, etc. " .....		107 39	
	" " Boarding Prisoners, " .....		6,877 41	
	" " Fines, City Cases, " .....		1,824 89	
	" " Sundries, " .....		11 22	
	" " Labor, " .....		9 00	
	FROM HOUSE OF REFUGE.		83,786 95	
	Received for Boarding Inmates .....	\$4,460 50		
	Cane Seating Chairs.....	2,011 82		
	Sale of Chair Forms .....	3 00	6,475 32	
	Receipts as above stated .....		\$90,262 27	

## EXHIBIT

*Statement Showing Property on Hand.*

Dr.  
1878.

		EFFECTS.			
Dec. 31	Amount due by sundry persons on Book Accounts to Workhouse			\$46,129 43	
	Amount due by sundry persons on Book Accounts to House of Refuge			491 95	\$46,621 38
	Furniture and Fixtures on hand in Workhouse			4,063 08	
	"    "    "    "    " House of Refuge			773 85	4,836 93
	Clothing and Bedding			3,196 44	
	"    "    "    "    " House of Refuge			720 06	3,916 50
	Stationery, Blanks, etc.			186 04	
	School Books, etc.,			210 60	396 64
	Shoes,			381 50	
	"    "    "    "    " House of Refuge			251 96	633 46
	Provisions,				720 18
	Fuel,				73 60
	Shoe Shop—Tools, Mater'ls,				62 90
	Brush Shop—Manuf'd Stock			3,929 84	
	"    "    Raw			22,565 45	26,525 29
	"    "    Tools, etc.				6,314 94
	Blacksmiths'				33 00
	Engine Oil, etc.				99 45
	Carpenter Shop, Tools, etc.				31 04
	Lumber and Shingles,				50 10
	Chair Shop—Stock & Tools,				19 00
	General Implements				1,346 82
	Laundry Machinery,				1,000 00
	Live Stock,				752 53
	Cash in hands of Superintendent,			2,933 51	
	"    "    " City Treasurer			5,974 28	8,907 80
					\$102,341 06



EXHIBIT

Statement Showing Expenses and Profits of Cleveland

1878,

EXPENSES.			
Dec. 31	Cost of Furniture and Fixtures, Workhouse. ....	\$ 917 13	
	House of Refuge	148 26	\$ 1,063 39
	Clothing and Bedding, Workhouse. ....	782 74	
	House of Refuge	1,022 86	1,805 60
	Sundry Supplies, Workhouse. ....	2,403 84	
	House of Refuge	87 09	= 2,490 93
	Shoes Workhouse. ....	624 44	
	House of Refuge	105 04	729 48
	Provisions, Workhouse.....		16,906 39
	Fuel and Light, "		4,547 61
	Brush Shop Implements, "		231 29
	Box " "		449 00
	Blacksmith " "		25 75
	Engine Repairs and Supplies, "		558 19
	General Improvements, "		3,610 64
	Special " "		5,399 21
	Medical S'vices and Supplies, "	772 34	
	House of Refuge	93 45	865 79
	Sundry Implements, Workhouse. ....		326 23
	Laundry " "		185 46
	Live Stock, Hay and Feed, "		428 87
	Salaries of Employees, "	10,073 06	
	House of Refuge	1,188 35	11,261 41
	Repairs Heating Apparatus, Workhouse...		258 98
	Boilers, "		501 87
	Boarding House of Refuge inmates and Employes..		7,041 11
	Loss by Bad and Doubtful Book Accounts.....		785 88
			\$59,473 08

NOTE.—The accounts from which this and the preceding account is compiled are given in detail, with proper "reference letters," on the following pages.





## EXHIBIT

*Statement Showing Expenses and Profits*

1878.

EXPENSES.		
Dec. 31	Expenditures for Workhouse Departments .....	\$49,788 92
	"    "    House of Refuge .....	9,684 16
	Net Gain in House of Refuge, " (Exhibit F.) ..	204 46
		<hr/> \$59,677 55

## EXHIBIT

*Statement Showing Expenses and Profits*

1878.

EXPENSES.		
Dec. 31	Expenses for Furniture and Fixtures .....	\$ 917 13
	"    "    Clothing and Bedding .....	782 74
	"    "    Sundry Supplies .....	2,403 84
	"    "    Shoes, .... ..	624 44
	"    "    Provisions .....	16,906 30
	"    "    Fuel and Light .....	4,547 61
	"    "    Brush Shop Implements .....	231 29
	"    "    Paper Box Implements .....	449 00
	"    "    Blacksmith .....	25 75
	"    "    Engine Repairs .....	558 19
	"    "    General Improvements .....	3,610 64
	"    "    Special .....	5,309 21
	"    "    Medical Services and Supplies .....	772 34
	"    "    Sundry Implements .....	326 23
	"    "    Laundry Machinery .....	185 46
	"    "    Live Stock, Hay and Feed ..	428 87
	"    "    Salaries .....	10,073 06
	"    "    Repairs to Heating Apparatus .....	258 98
	"    "    "    Boiler .....	501 87
	Loss by Bad and Doubtful Book Accounts .....	785 88
		<hr/> \$49,788 92

“ D . ”

*of Workhouse, House of Refuge and Correction.*

1878.

GAINS.			
Dec. 31	Gain on Workhouse Departments .....	\$36,683	55
	“ “ House of Refuge Departments. ....	9,888	62
	Net Expense of Workhouse “ (Exhibit E.).....	13,105	37
		\$50,677	54

‘ E . ’

*of Workhouse Department.*

1878.

GAINS.			
Dec. 31	Gain in Brush Department . . . . .	\$21,884	86
	“ “ Paper Box “ . . . . .	189	48
	“ “ Shoe Shop “ . . . . .	421	90
	“ “ Carpenter Shop Department . . . . .	66	60
	“ “ Manufacture of Sundries . . . . .	9	00
	“ “ Interest . . . . .	28	84
	Amount received for board of Prisoners, viz:		
	From Cuyahoga County Commissioners.....	\$5,977	60
	“ United States Marshal . . . . .	887	31
	“ Individuals . . . . .	176	85
		7,041	76
	Amount due for board of House of Refuge Inmates and Officers. ....		
	Net Expense Workhouse Department .....	7,041	11
		13,105	37
		\$49,788	92

## EXHIBIT

*Statement Showing Expenses and Profits*

1878.

		EXPENSES.		
Dec. 31		Expenses for Furniture and Fixtures.....	\$ 146 26	
		“ “ Clothing and Bedding. ....	1,022 86	
		“ “ Sundry Supplies.....	87 00	
		“ “ Shoes.....	105 04	
		“ “ Medical Services and Supplies.....	93 45	
		“ “ Salaries of Employes	1,188 35	
		“ “ Board of Inmates and Employes.....	7,041 12	
		Net Gain over all Expense.....	204 46	
				\$9,888 62

## EXHIBIT

*Statement Showing Monthly Bills Approved*

1878.

Jan. 31	Bills to date sent to City Auditor, .....	\$10,218 27
Feb. 28	“ “ “ “ “ “ .....	11,147 82
M'ch 31	“ “ “ “ “ “ .....	12,190 62
April 30	“ “ “ “ “ “ .....	10,483 22
May 31	“ “ “ “ “ “ .....	11,552 50
June 30	“ “ “ “ “ “ .....	12,503 66
July 31	“ “ “ “ “ “ .....	8,528 88
Aug. 31	“ “ “ “ “ “ .....	7,329 01
Sept. 30	“ “ “ “ “ “ .....	11,474 68
Oct. 31	“ “ “ “ “ “ .....	9,970 05
Nov. 30	“ “ “ “ “ “ .....	5,707 09
Dec. 31	“ “ “ “ “ “ .....	9,430 89
Add Sept., Oct., Nov., Dec., 1877, bills paid in 1878.....		26 456 20
		\$147,082 89

"F"

*of House of Refuge Department.*

1878.

GAINS.			
Dec. 31	Gain on Cane Seating, Labor of Inmates .....		\$ 528 29
	" Brush Making " .....		4,960 83
	Amount Received for Sale of Chair Forms.....		2 00
	" " " Boarding Inmates, viz :		
	From Cuyahoga County.....	\$4,801 49	
	" Individuals, .....	98 01	
			4,899 50
			\$9,888 62

"G"

*and Sent to City Auditor for Payment.*

1878.

Dec. 31	Warrants Drawn to Date (Exhibit "A"). .....	\$132,812 88	
	Amount of Bills Unpaid at this Date .....	14,270 01	
			\$147,082 89

EXHIBIT

*Statement of Workhouse and House of Refuge and*

1878.

Jan.	1	Balance in hands of Treasurer, (Exhibit "A").....	\$28,739 90
		Taxes Collected to Date, " ".....	17,587 80
		Cash Deposited by Supt. to Date, " "I") .....	92,500 47
			<hr/> \$138,787 17

EXHIBIT "A."

*Superintendent's*

1878.

Jan.	1	Balance on hand at this Date. ....	\$ 5,180 71
Dec.	31	Receipts to Date, (Exhibit "A"). ....	90,262 27
			<hr/> \$95,442 98

## " H "

*Correction Funds in City Treasury.*

1878.

Dec. 31	Warrants Paid by Treasurer to Date.. .. .	\$132,812.88
	Balance in hands of " at Date, (Exhibit "A"). .. .	5,974.29
		<u>\$138,787.17</u>

## " I "

*Cash Account.*

1878.

Jan. 31	Deposited in City Treasury to Date.....	\$ 3,478.72
Feb. 28	" " " " .....	10,545.30
M'ch 31	" " " " .....	6,809.70
April 30	" " " " .....	8,116.00
May 31	" " " " .....	4,856.98
June 30	" " " " .....	9,042.70
July 31	" " " " .....	10,331.00
Aug. 31	" " " " .....	9,131.00
Sept. 30	" " " " .....	10,018.00
Oct. 31	" " " " .....	6,533.00
Nov. 30	" " " " .....	2,822.00
Dec. 31	" " " " .....	10,825.07
Dec. 31	Balance in Superintendent's hands (Exhibit "B").....	2,933.51
		<u>\$95,442.98</u>

## COMPARATIVE STATEMENTS

*Showing Drafts on Treasury and Deposits in Same Since the Opening of the Institution.*

1871.		
Warrants drawn on City Treasury .....	\$35,804 72	
Deposits by Superintendent in City Treasury .....	1,230 98	
Excess of Warrants .....		\$34,661 78
1872.		
Warrants drawn on City Treasury .....	42,940 50	
Deposits by Superintendent in City Treasury .....	6,903 88	
Excess of Warrants .....		\$36,036 67
1873.		
Warrants drawn on City Treasury .....	61,413 77	
Deposits by Superintendent in City Treasury .....	37,680 64	
Excess of Warrants .....		\$23,733 13
1874.		
Warrants drawn on City Treasury .....	65,382 41	
Deposits by Superintendent in City Treasury .....	51,000 81	
Excess of Warrants .....		\$14,381 60
1875.		
Warrants drawn on City Treasury .....	84,082 04	
Deposits by Superintendent in City Treasury .....	56,342 74	
Excess of Warrants .....		\$28,319 30
1876.		
Warrants drawn on City Treasury .....	78,343 68	
Deposits by Superintendent in City Treasury .....	40,182 77	
Excess of Warrants .....		\$38,150 85
1877.		
Warrants drawn on City Treasury .....	80,013 97	
Deposits by Superintendent in City Treasury .....	82,697 49	
Excess of Warrants .....		\$2,683 52
1878.		
Warrants drawn on City Treasury (14 months' bills) .....	132,812 88	
Deposits by Superintendent in City Treasury .....	92,509 47	
Excess of Warrants .....		\$40,303 41



# ABSTRACT OF WORKHOUSE ACCOUNTS.

## EXHIBIT "J."

### *Brush Account.*

1878.

		DR.		
Jan. 1	For Balance on hand. ....			\$ 19,167 89
Dec. 31	" Purchases during the year. ....			74,679 53
	" For Profits on 12 months' sales (Exhibit "C"). ..			21,884 86
				\$115,732 28
		CR.		
Dec. 31	For Sales during the year .....		\$89,206 99	
	" Balance on hand (Exhibit "B"). ..		26,525 29	
				\$115,732 28
	Manufactured Stock .....	\$ 3,920.84		
	Raw Material .....	22,585.45		
		\$26,525.29		

## EXHIBIT "K."

### *Paper Box Account.*

1878.

		DR.		
Jan. 1	For Balance on hand.....			\$ 635 35
Dec. 31	" Purchases during the year .....			1,084 57
	" Profits on four months' Sales. (Exhibit "C"). .....			189 48
				\$1,889 40
		CR.		
Dec. 31	For Sales during the year.....			\$1,889 40

EXHIBIT "L."

Shoe Shop Account.

1878.			
DR.			
Dec. 1	For Balance on hand		\$ 79 23
Jan. 31	" Purchases during the year		360.06
	" Profits in this Dept. (Exhibit "C")		421.90
			\$870 19
CR.			
Dec. 31	For Work Manufactured and Repaired.	\$179 35	
	" Shoes for House of Refuge	270 50	
	" " Workhouse	357 44	
	" Balance on hand (Exhibit "B")	62 90	
			870 19

EXHIBIT "M."

Furniture and Fixtures.

1878.			
DR.			
Jan. 1	For Balance on hand...		\$4,496 50
Dec. 31	" Purchases to date...		443 71
			\$4,940 21
CR.			
Dec. 31	For Balance on hand (Exhibit "B,")..		4,063 08
	Expense of same for 1878 (Exhibit "C," ).....		\$917 13

EXHIBIT "N."

Clothing and Bedding

1878.			
DR.			
Jan. 1	For Balance on hand.		\$3,254 57
Dec. 31	" Purchases to date....		732 90
			\$3,987 47
CR.			
	For Sale of rags, etc. (Exhibit "A," ).....	\$ 8 20	
	" Balance on hand (Exhibit "B," )..	3,196 44	
			3,204 73
	Expense of same for 1878 (Exhibit "C," ).....		\$ 782 74

## EXHIBIT "O."

*Sundry Supplies.*

1878.

		DR.		
Jan. 1	For Balance on hand.....			\$ 348 22
Dec. 31	" Purchases to date.....			2,247 91
				<hr/>
				\$2,506 13
		CR.		
Dec. 31	For Sale of Soap Boxes, etc.....	\$ 6 25		
	" Balance on hand (Exhibit "B.").....	188 04		
				<hr/>
				192 29
				<hr/>
				\$2,403 84

## EXHIBIT "P."

*Shoe Account.*

1878.

		DR.		
Jan. 1	For Balance on hand.....			\$648 50
Dec. 31	" purchases to date.....			400 50
				<hr/>
				\$1,148 00
		CR.		
Dec. 31	For Work done for House of Refuge.....	\$142 06		
	" Balance on hand (Exhibit "B.").....	381 50		
				<hr/>
				523 56
				<hr/>
				\$624 44

## EXHIBIT "Q."

*Provision Account.*

1878.

		DR.		
Jan. 1	For Balance on hand.....			\$ 563 00
Dec. 31	" Purchases to date.....			17,314 77
				<hr/>
				\$17,878 46
		CR.		
Dec. 31	For Sale of Barrels, Bones, etc.....	\$251 89		
	" Balance on hand (Exhibit "B.").....	720 18		
				<hr/>
				972 07
				<hr/>
				\$16,906 39

EXHIBIT "R."

Fuel and Light.

1878.

	Dr.	
Jan. 1	For Balance on hand.....	\$ 57 30
Dec. 31	" Fuel and Gas Bills to date ..	4,563 91
		\$4,621 21
	Cr.	
Dec. 31	For Balance on hand...	73 60
	Expense of same for 1878 (Exhibit "C").....	\$4,547 61

EXHIBIT "S."

Implement Account.

1878.

	Dr.		
Jan. 1	For Brush Shop Tools on hand .....		\$3,621 10
Dec. 31	" Box .....		1,347 00
	" Blacksmith Shop Tools on hand. ....		54 00
	" General Implements. ....		1,212 22
	" Purchases and Repairs, viz :		
	Brush Shop .....	\$2,027 13	
	Blacksmith Shop .....	4 75	
	General Implements .....	460 83	
			2,492 81
			\$8,727 13
	Cr.		
Dec. 31	For Balance on hand (Exhibit "B") .....		7,604 76
	Expense of same for 1878 (Exhibit "C")..		\$1,032 27

EXHIBIT "T."

Live Stock, Hay and Feed.

1878.

	Dr.		
Jan. 1	For Balance on hand .....		\$856 00
Dec. 31	" Purchases to date ..		422 79
			\$1,278 79
	Cr.		
Dec. 31	For Sundry Sales ..	\$107 30	
	Balance on hand .....	752 52	859 82
	Expenses of same for 1878 (Exhibit "C").....		\$428 87

# ABSTRACT OF HOUSE OF REFUGE ACCOUNTS.

## EXHIBIT "I."

### *Furniture and Fixtures.*

1878.

		Dr.	
Jan. 1	For Balance on hand .....		\$912 91
Dec. 31	" Purchases to date.....		7 20
			\$920 11
		Cr.	
Dec. 31	For Balance on hand. (Exhibit "B").....		773 85
	Expense of same for 1878, (Exhibit "C")..		\$146 26

## EXHIBIT "II."

### *Clothing and Bedding.*

1878.

		Dr.	
Jan. 1	For Balance on hand.....		\$1,372 85
Dec. 31	" Purchases to date .....		870 07
			\$1,742 92
		Cr.	
Dec. 31	For Balance on hand (Exhibit "B") ..		720 06
	Expense for same for 1878 (Exhibit "C").....		\$1,022 86

EXHIBIT "III."

*Chair Shop Account.*

1878.			
		DR.	
Jan. 1	For Balance on hand .....		\$ 42 75
Dec. 31	" Purchases at date .....		338 20
	Gain for 1878 (Exhibit "C") .....		526 29
			<hr/>
			\$907 24
		CR.	
Dec. 31	For Cash Received for Cane Seating .....		883 24
	" Balance on hand (Exhibit "B") .....		\$ 19 00
			<hr/>

EXHIBIT "IV."

*Shoe Account.*

1878.			
		DR.	
Jan. 1	For Balance on hand. ....		\$ 26 50
Dec. 31	" For Shoes purchased from Workhouse .....		270 50
			<hr/>
			\$357 00
		CR.	
Dec. 31	For Balance on hand (Exhibit "B") .....		251 96
	Expenses of same for 1878 (Exhibit "C") .....		\$105 04
			<hr/>

EXHIBIT "V."

*Boarding Account.*

1878.			
		DR.	
Dec. 31	For Officers' Board.....		\$ 422 00
	" Inmates' Board.....		6 09 11
			<hr/>
			\$7.041 11
		CR.	
Dec. 31	For Amount received, viz:		
	From Cuyahoga County.....	\$4,301 49	
	" Individuals.....	98 01	
			<hr/>
			4,399 50
	Expense of same for 1878 (Exhibit "C")....		\$2,641 61
			<hr/>

# WORKHOUSE STATISTICS.

TABLE NO. 1.

	Males.	Females.	Total.
Remaining January 1st, 1878 .....	282	52	334
Whole number committed during 1878 .....	753	222	975
Total .....	1035	274	1309
Discharged during 1878.....	810	228	1038
Total remaining December 31st, 1878 .....	225	46	271

TABLE NO. 2.

## *Number Received Each Month.*

	Males.	Females.	Total.
Remaining January 1st, 1878. ....	282	52	334
Received January, 1878.....	57	17	74
" February, " .....	44	18	57
" March, " .....	54	19	73
" April, " .....	66	17	83
" May, " .....	66	17	83
" June, " .....	44	17	61
" July, " .....	76	23	99
" August, " .....	70	22	92
" Septemb'r, " .....	70	20	90
" October .....	56	17	73
" Novemb'r, " .....	72	26	98
" December, " .....	78	14	92
Total .....	1035	274	1309
Discharged during 1878.....	810	228	1038
Remaining December 31st, 1878 .....	225	46	271

TABLE NO. 3.

## *Committed by the Following Courts:*

Police Court.. .....	916
Common Pleas Court.. .....	12
United States District Court .....	6
Probate Court .. .....	31
Justice Court .. .....	10
Total.....	975

TABLE NO. 4,

*Offenses.*

Attempting to pass and having in possession false U. S. coin.....	1
"    to utter false U. S. Coin.....	1
Abusing family.....	24
"    Children.....	1
"    Family and intoxication.....	6
Assault and battery.....	39
Assaulting Officer.....	9
Attempting to provoke a breach of the peace.....	1
Awaiting trial.....	11
Assault and battery and lewd and lascivious language.....	1
Breaking into rail road car in the day time.....	2
Cruelty to animals and intoxication.....	1
"    "    ".....	3
Conspiracy.....	1
Common prostitute.....	16
"    Beggar.....	11
Carrying concealed weapons.....	3
Drunk.....	1
Destroying property.....	7
Disorderly conduct.....	29
"    "    And intoxication.....	1
"    "    "    Obtaining goods by false pretenses.....	1
Disturbance.....	42
"    And resisting officer.....	3
Execution.....	11
Embezzlement.....	2
Gambling.....	1
House breaking.....	4
"    "    And larceny.....	1
Habitual disturbance.....	4
Intoxication.....	314
"    And resisting officer.....	1
"    Execution.....	1
"    Indecent Conduct.....	2
"    Vagrancy.....	1
"    Petit larceny.....	2
"    Destroying property.....	1
Indecent Conduct.....	3
Keeping house of ill fame.....	7
"    Disorderly house.....	2
"    Gambling    ".....	1
Larceny.....	3
"    And receiving stolen property.....	1
Maliciously destroying property.....	1
Making and having in possession false U. S. coin.....	2
"    False U. S. coin.....	1
Obtaining money by false pretenses.....	4
"    Goods    "    ".....	5
Obstructing officer.....	2
Petit larceny.....	88
Peddling without license.....	1



TABLE NO. 4.—*Continued.*

Passing counterfeit coin. . . . .	2
Residing in house of ill fame. . . . .	18
Resisting officer. . . . .	2
"    "    and abusing family. . . . .	1
Representing himself to be a U. S. revenue officer. . . . .	1
Removing improperly stamped cigars. . . . .	1
Selling and removing unstamped fermented liquors. . . . .	1
"    "    Having in possession false U. S. coin. . . . .	1
"    "    Receiving stolen property. . . . .	1
Suspicious person. . . . .	89
Unlawfully using U. S. mail. . . . .	1
"    Delivering a corpse for the purpose of medical and surgical study. . . . .	1
Uttering counterfeit circulating note of U. S. . . . .	1
"    And having in possession false U. S. coin. . . . .	5
Visiting house of ill fame. . . . .	16
Violating Internal Revenue laws. . . . .	1
"    Street Railroad Ordinance and disorderly conduct. . . . .	1
"    Property. . . . .	28
"    "    "    And petit larceny. . . . .	1
"    Fire Arm. . . . .	3
"    Park. . . . .	1
Vagrancy. . . . .	178
Total. . . . .	975

TABLE NO. 5,

*Discharged During the Year.*

	Males.	Females.	Total.
By labor. . . . .	517	113	630
"    "    and Cash. . . . .	115	71	186
"    "    Pardon. . . . .	61	6	67
"    "    Escape. . . . .	1	0	1
"    "    Pardon and Cash. . . . .	15	4	19
Pardon. . . . .	18	5	23
"    and Fine Paid. . . . .	7	8	15
"    Costs. . . . .	1	0	1
Expiration. . . . .	32	2	34
"    and Pardon. . . . .	4	8	12
Death. . . . .	3	0	3
Cash. . . . .	1	1	2
"    and Pardon. . . . .	4	3	7
Fine Paid. . . . .	10	4	14
Escape. . . . .	7	2	9
Writ of Habeas Corpus. . . . .	2	0	2
Taken for Trial. . . . .	12	0	12
Sent to Infirmary. . . . .	0	1	1
Total. . . . .	810	228	1038

TABLE NO. 6.

*Monthly Average in Confinement during the Year.*

Average number Males .....	203.
" " Females .....	57 $\frac{3}{4}$
" " in Refuge .....	84 $\frac{1}{2}$

TABLE NO. 7.

*Committed for Sundry Offenses.*

	Males.	Females.	Total.
First Commitment .....	427	72	499
Second " .....	139	44	181
Third " .....	79	28	107
Fourth " .....	27	21	48
Fifth " .....	24	16	40
Sixth " .....	15	11	26
Seventh " .....	11	6	17
Eighth " .....	6	5	11
Ninth " .....	4	3	7
Tenth " .....	9	2	11
Eleventh " .....	2	2	4
Twelfth " .....	0	3	3
Thirteenth " .....	2	3	5
Fourteenth " .....	0	2	2
Fifteenth " .....	1	2	3
Sixteenth " .....	2	0	2
Seventeenth " .....	2	1	3
Eighteenth " .....	2	1	3
Nineteenth " .....	2	0	2
Twentieth " .....	1	0	1
Total .....	753	222	975

TABLE NO. 8.

*Color.*

	Males.	Females.	Total.
White .....	724	211	935
Colored. ....	29	11	40
Total ... ..	753	222	975

TABLE NO. 9.

*Nativity.*

United States .....	503
England.....	70
Ireland.....	206
Germany.....	105
Canada.....	88
Scotland.....	18
France.....	10
Wales.....	6
Switzerland.....	6
Australia.....	1
Isle of Man.....	2
Bohemia.....	3
Holland.....	1
Russia.....	1
Sweden.....	1
Prussia.....	1
Bavaria.....	1
Hungary.....	1
Holland.....	1
	975

TABLE NO. 10.

*Education.*

	Males.	Females.	Total.
Could read and write. ....	631	144	775
“ Neither read nor write.....	89	43	130
“ Read.....	33	35	70
Total.....	753	222	975

TABLE NO. 11.

*Religious Training.*

	Males.	Females.	Total.
Protestants.....	383	122	505
Catholics.....	358	99	457
Jews.....	3	1	4
Atheists.....	5	0	5
Freethinkers.....	4	0	4
Total....	753	222	975

TABLE NO. 12.

*Habits of Life.*

	Males.	Females.	Total.
Claim to be temperate. ....	225	48	273
Confess themselves intemperate. ....	528	174	702
Total ...	753	222	975

TABLE NO. 13.

*Social Relations.*

	Males.	Females.	Total.
Married.....	264	158	422
Single.. ..	489	64	553
Total .....	753	222	975

TABLE NO. 14.

*Age when Admitted.*

Under Twenty. ....	116
“ Thirty and over Twenty. ....	358
“ Forty “ “ Thirty.....	26
“ Fifty “ “ Forty. ....	13
“ Sixty “ “ Fifty.....	22
“ Seventy “ “ Sixty.....	18
“ Eighty “ “ Seventy .....	11
Total.....	975

TABLE NO. 15.

*Occupations.*

Auctioneer .. . . .	1	Jewelers .. . . .	3
Bakers. . . . .	8	Laborers.....	290
Barbers. . . . .	8	Laundryman....	1
Blacksmiths. . . . .	15	Laundress.....	1
Boiler Makers.....	8	Lawyers.....	3
Book Binder.....	1	Lecturer.....	1
Brick Layers.....	5	Lecturesse. ....	1
Brass Finisher.....	1	Locksmith.....	1
Basket Makers.....	4	Lather and Plasterer.....	1
Brewers.....	3	Machinists.....	7
Bar Tenders.....	3	Musicians.....	3
Boatmen.....	3	Moulders .. . . .	5
Butchers.....	11	Musical Instrument Maker.....	1
Bottler.....	1	Millwrights .. . . .	2
Book Keepers.....	8	Milliner. . . . .	1
Box Maker. . . . .	1	Marble Polisher.....	1
Bridge Tender.....	1	Nail Maker.....	1
Coal Miner.....	1	Paper Hanger.....	1
Carpenters.....	33	Pail Turner.....	1
Cooks.....	17	Printers.....	9
Coopers.....	18	Plasterer.....	1
Cigar Makers. . . . .	12	Painters.....	24
Clerks.....	10	Plumbers.....	1
Compositor .. . . .	1	Peddler.....	2
Coachman.....	1	Puddler.....	1
Confectioners. . . . .	2	Railroaders. . . . .	7
Cabinet Makers....	3	Rougher.....	1
Caner .. . . .	1	Roll Finisher.....	1
Cork Worker.....	1	Sawyer.....	1
Civil Engineer.....	1	Saloon Keeper.....	1
Curriers.....	2	Shipping Clerks.....	2
Driver .. . . .	1	Seamstress.....	5
Druggist.....	1	Slate Roofers .. . . .	2
Dress Makers .. . . .	11	Sailors.....	38
Distiller.....	1	Stone Masons.....	3
Dyer.....	1	Shoe Makers.....	21
Engineers .. . . .	7	Soldier.....	1
Engraver. . . . .	1	Spring Maker .. . . .	1
Farmers.....	8	Steam Fitter .. . . .	1
Firemen.....	12	School Teacher .. . . .	3
Florist .. . . .	1	Salesman.....	1
Finisher.....	1	Sling Maker.....	1
Fresco Painters .. . . .	2	Student.....	1
Grainer .. . . .	1	Sash and Blind Maker.....	1
Gardeners.....	4	Stove Mounter.....	1
Gilders.....	2	Stone Cutters.....	7
Glass Blower.....	1	Tinsmith.....	10
Hostlers .. . . .	18	Trunk-box Maker.. . . .	1
House Workers .. . . .	199	Tailors.....	10
Hack Drivers.....	2	Tailoress.....	5
Hatter .. . . .	1	Teamsters. . . . .	6
Harness Makers.....	4	Upholsterer .. . . .	1
House Keeper.. . . .	1	Waiters.....	6
Horse Clipper .. . . .	1	Weaver.....	1
Heaters .. . . .	3	Well Diggers.....	1
Iron Workers .. . . .	2		
Total.....			975

# HOUSE OF REFUGE STATISTICS.

TABLE NO. 1.

## *House of Refuge.*

	MALES.	FEMALES	TOTAL.
Remaining January 1, 1878.....	87	2	89
Whole Number committed during 1878.....	76	10	86
Total ... ..	163	12	175
Discharged during 1878 .. ..	90	9	99
Total remaining December 31, 1878.....	73	3	76

TABLE NO. 2.

## *Number Received in House of Refuge Monthly.*

	MALES.	FEMALES	TOTAL.
Remaining January 1, 1878.....	87	2	89
Received during January, 1878 .....	3	0	3
"    "    February, " .....	1	0	1
"    "    March, " .....	8	1	9
"    "    April, " .....	8	1	9
"    "    May, " .....	4	2	6
"    "    June, " .....	8	1	9
"    "    July, " .....	2	0	2
"    "    August, " .....	9	1	10
"    "    September " .....	12	0	12
"    "    October, " .....	5	3	8
"    "    November " .....	1	0	1
"    "    December, " .....	3	1	4
Total .....	163	12	175
Discharged during 1878.....	90	9	99
Remaining December 31, 1878.....	73	3	76

TABLE NO. 3.

*From Where Those Admitted during the Year were Received.*

	MALES.	FEMALES	TOTAL.
From Police Court .....	75	10	85
" Justice " .....	1	0	1
Total .....	76	10	86

TABLE NO. 4.

*Crimes and Offenses.*

	MALES.	FEMALES	TOTAL.
Incorrigible Conduct.....	22	4	26
Petit Larceny.....	26	3	29
Vagrancy.....	14	1	15
Violating Property Ordinance.....	7	0	7
" Bootblack " .....	1	0	1
Destroying Property.....	0	1	1
Assault and Battery .....	1	0	1
Intoxication .....	1	0	1
Disorderly Conduct ....	4	1	5
Total .....	76	10	86

TABLE NO. 5.

*Discharged During the Year.*

	MALES.	FEMALES	TOTAL.
Reached Honor .....	58	0	58
Pardoned.....	23	9	32
Escaped .....	7	0	7
Died .....	1	0	1
Writ of Habeas Corpus.....	1	0	1
Total.....	90	9	99

TABLE NO. 6.

	MALES.	FEMALES.	TOTAL.
Whole number Inmates Received during the year.			175
“ “ “ Discharged “ “			99
“ “ “ Remaining Dec. 31, 1878....			76
Average number of Inmates.....			84 6-12

TABLE NO. 7.

*Color.*

	MALES.	FEMALES.	TOTAL.
White .....	70	10	80
Colored.....	6	0	6
Total.....	76	10	86

TABLE NO. 8.

*Nativity.*

	MALES.	FEMALES.	TOTAL.
Canada.....	3	0	3
United States .....	59	9	68
Ireland.....	4	1	5
Germany.....	6	0	6
Scotland.....	1	0	1
England .....	3	0	3
Total.....	76	10	86

TABLE NO. 9.

*Education.*

	MALES.	FEMALES.	TOTAL.
Could read and write.....	52	7	59
Could read and not write.....	16	2	18
Could neither read nor write.....	8	1	9
Total.....	76	10	86



TABLE NO. 10.

*Religious Training.*

	MALES.	FEMALES.	TOTAL.
Protestants .....	39	6	45
Catholics.....	32	4	36
Jews .....	5	0	5
Total.....	76	10	86

TABLE NO. 11.

*Social Relations.*

	MALES.	FEMALES.	TOTAL.
Having Both Parents .....	48	6	54
“ One Parent .....	22	1	23
Orphans .....	6	3	9
Total.....	76	10	86

TABLE NO. 12.

*Age when Admitted.*

	MALES.	FEMALES.	TOTAL.
Under Ten .....	8	1	9
Ten to Twelve.....	29	1	30
Twelve to Fifteen.....	31	5	36
Fifteen to Eighteen.....	8	3	11
Total.....	76	10	86

# MEDICAL REPORT.

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*To the Honorable Board of Directors of the Cleveland Workhouse and House of Refuge and Correction:*

GENTLEMEN:—I have the honor to present a report of the Medical Department of the Cleveland Workhouse and House of Refuge and Correction, for the year 1878.

During the year two hundred and fifty-one (251) visits were made; eleven hundred and fifteen (1,115) patients were treated; of these eight hundred and thirty-nine (839) were males and two hundred and seventy-six (276) were females; two thousand and fifty-two (2,052) prescriptions were dispensed—one thousand five hundred and thirty-seven (1,537) to males, and five hundred and fifteen (515) to females.

Four deaths have occurred—Gustavus Castor, from inflammatory rheumatism, sick two days, the disease went to the heart. Patrick Cratty, from peritonitis, (inflammation of the covering of the bowels), sick eighteen hours. John C. Connor, from delerium tremens, and Jno. A. Davenport, from consumption.

The sick have had good care from the Matron and other officials.

I am indebted to Dr. G. W. Stephenson for prompt and valuable assistance.

Yours very respectfully,

H. F. BIGGAR,

*Surgeon in Charge.*

CLEVELAND, OHIO, January, 1879.

**ANNUAL REPORT**

**OF THE**

**Board of Infirmary Directors,**

**FOR THE**

**YEAR ENDING DECEMBER 31, 1878.**



# Infirmary Directors' Report.

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*To the Honorable City Council:*

GENTLEMEN : We herewith hand you our Annual Report for the year just closed and beseech for it the attention of your Honorable Body.

The past year has been a very severe one for all who depend on their labor for their daily bread, and consequently the applications for relief have not greatly diminished, but while the applicants are as numerous as formerly the successful applicants are a comparatively small class, and comprise all or nearly all the worthy poor of Cleveland, excepting the small number depending on private charity.

The system of rigid inspection and disregard of outside recommendation which is in reality the strict application of the laws regulating Infirmary management, has fully vindicated itself, and we need only say that it is still in force. But we have since our last Report supplemented it with the work system, which consists in furnishing worthy applicants with work and paying them with groceries and coal in quantities as are absolutely necessary. In the Reports of the Clerk will be found detailed records of the work performed. The results achieved by this policy are astonishing even to its originators, as will be seen by the Report.

The Report shows that 725½ days were worked on the farm, and how largely this labor was utilized in the erection of the new barn, and other improvements made during the year, will be seen from detailed Reports containing description and cost of buildings.

While referring specially to the detailed Reports we will here state that the value of the work performed by the out door relief applicants being 282 was \$500. But while this amount is clear gain as under the old system, the men who earned it would have been supported in idleness. Even that does not set forth the value of the work policy, for its greatest recommendation is that it furnishes an infallible method of discriminating between the worthy and unworthy. No matter how keenly and fairly personal investigation is conducted cases to doubt will always arise. In such cases we give the applicant the benefit of the doubt, and offer work, and no man who labors faithfully for the pay we give can be very unworthy.

Experience and consideration has convinced us as well as the officers, whose entire time and attention is given to these problems, that an extension of the work system would render our present plan of management as nearly perfect as an Institution of this kind can become.

We refer to the plan of providing some light and indoor work such as picking oakum, for those capable of such work, but incapable of the severe labor we now require. In many instances there are invalid young persons, old people, and strong, able women, whom we are even now compelled to support at the public expense, and who could easily earn the amount now given them, were we able to offer some light indoor labor, to those who are capable of working, and few lack the strength necessary to pick oakum. We, therefore, propose, with your approbation, to arrange the large and commodious apartments in the second and third floors of the building we now occupy which are now unused, for the manufacture of oakum, and then give all persons (whom by reason of their sex, or physical infirmities we are unable to employ at present) an opportunity to earn an honest livelihood. Some may shrink from the idea of exacting labor from women, but, gentlemen, honest labor is no disgrace, and is it not more honorable for a woman to earn a living than to be supported in the degraded and degrading

character of a pauper? It is not only in the light of pecuniary benefit that we urge this measure. We believe the moral effect to be of more importance, and as we have often stated it is an undeniable fact that pauperism is encouraged, and self respect and habitual industry is discouraged by the policy of supporting people in idleness.

We request, therefore, your earnest attention to this proposition, in the certainty that it will meet with your approval, and confident that its adoption will complete or nearly complete the good work of reform begun in the Department by the adoption of the store system in 1876. We say that with this improvement in the plan of organization, the Infirmary Department will be nearly perfect, that is to say as nearly perfect as can be under existing laws regulating Infirmary matters.

That these laws are sufficient for the economical administration of the Infirmary fund, we have, as we believe, demonstrated. But our experience has gradually convinced us that the general law of the State fails to give the Infirmary Directors power to repress pauperism, as it should be repressed. It certainly is self-evident that any person who falsely represents himself or herself to be a fit and lawful subject of public charity, should, upon detection be severely punished. The law provides no punishment for such offences. The consequence is that there is a class in this community who expend a large portion of their time and energy (which should be devoted in honest labor) to conceive and execute plans of plundering raids on the Infirmary fund. Of course the investigators frequently detect the guilty parties, but as detection is not followed by serious consequences to the guilty ones, it simply causes them to change their plan of procedure. We would, therefore, very urgently desire your Honorable Body to request and urge the Legislature of Ohio to pass a law making it a penal offence to obtain goods or money from the Infirmary fund through false pretenses. We assure you, gentlemen of the Council, that one case for such an offence would do more for the suppression of

pauperism than the employment of twenty extra investigators. It would diminish the number of applicants more than the most complete return of good times.

Another class of applicants whom we cannot reach under existing laws, are those who are afflicted with drunken, worthless, criminal husbands, who have for years been legal recipients of public charity. Husbands who have utterly failed to provide for their families. Some of these women are hard working, industrious persons, who make strenuous though unsuccessful efforts to support their entire families, and were they freed from the burdens of a worthless husband, and consequent maternal duties, would become respectable and worthy members of society. In other cases both wife and husband are worthless and degraded. We never grant relief to such people without regret and a feeling that wrong is being done to society at large and to the worthy people of Cleveland especially. The custodians of the Infirmary fund have no power to change this state of affairs. What is needed is the power to disorganize families that are a burden to the community.

In the case of a respectable woman with a drunken, worthless husband or where the parents are both unworthy, the Board of Infirmary Directors should have the power of bringing the guilty ones into court, where if the husband were found guilty of willful neglect to provide his family with the necessities of life, and where the allegations of unworthiness against the wife are sustained, either or both should be sent to the Workhouse, and the children taken to public or private charitable institutions where they would be freed from the evil influence of their parents, and where they would be given an opportunity to become useful citizens. These suggestions are the results of our official experience, and we are convinced that the power of disorganizing pauper families, to compel able-bodied but vicious people to labor, should be vested in the legal custodians of the large sum of money which was intended to relieve the sufferings of honest misfortunes, but which is too often made the



means of sustaining and nourishing persons in idleness and vice. We therefore recommend such additions and amendments to the Infirmary laws as will confer upon the Board of Infirmary Directors the power to carry out the reforms suggested.

We would also recommend to your consideration the suggestion of the Steward that a special fire alarm-box be placed near the Infirmary buildings. We hope, in common with all taxpayers, that no demand for the Fire Department will ever come from the Infirmary. But should the Infirmary buildings ever take fire, it should be of the highest importance that the Fire Department receive prompt information. To this end we we hope your Honorable Body will order that another alarm-box be placed near the Infirmary buildings, that the alarm-box at present in use on the buildings may be accessible to the Steward of the Infirmary only. We beg to suggest another valuable improvement, that of erecting a telegraph line between the Infirmary and the Infirmary office. At present much valuable time is lost by running between the two places and what is worse, unnecessary suffering is often inflicted on sick and dying applicants pending a visit of the Steward of the Infirmary. Formerly this evil was lessened by the allowance of \$300 for a horse for the use of the Department, but a telegraph line will be a permanent improvement and vastly more effective. By its use business which now requires hours of time can be adjusted in a few minutes, and many errors avoided. We trust your Honorable Body will order the erection of such a line at once.

Considering that the Infirmary fund has been chronically overdrawn for many years and that the Infirmary Directors for years have come before your Honorable Body like Oliver Twist, crying for more, you will pardon us if we refer to the present state of the Infirmary fund with some pride. The balance of \$19,630 83 to the credit of the fund is an eloquent commendation of our management. A self-supporting Infirmary

ary Department would be impossible. But if our present system is adhered to a few years, we feel certain that the Cleveland Infirmary will have a yearly showing of public work performed of equal value to the amount expended, and such a state of affairs is certainly a consummation devoutly to be wished for.

In conclusion we would return our thanks to the officers of this Department, who have performed their duties to our entire satisfaction. We congratulate ourselves on having secured the assistance of gentlemen whose intelligent zeal has made the execution of our plans for improvement possible, and whose co-operation has lightened our labors, and made our official associations pleasant and harmonious. And we believe the taxpayers have every reason to congratulate themselves on the acquisition and retention of such conscientious and capable public servants.

We annex the following Department Reports of the Superintendent and Clerk, and Steward and Physician, which give a general summary of both branches and will be found both interesting and instructive.

Respectfully submitted,

GEO. KEIFFER, )  
JNO. GILL,        )  
WM. CUBBON,     ) *Inf'm'y Dir's.*

JACOB BLUIM, *Clerk.*

# SUPERINTENDENT'S AND CLERK'S REPORT.

*To the Board of Infirmary Directors :*

GENTLEMEN:—We hereby submit to your consideration our Report for the year 1878, illustrating the department financially, together with tables showing the amount and character of relief extended, the nativity of the applicants, the wards in which they reside, etc., etc.:

## FINANCIAL REPORT.

### RECEIPTS.

Receipts from Taxes.....	\$70,161 17	
Receipts from County.....	5,101 10	
Receipts from Township.....	1,218 94	
Receipts from Steward.....	80 70	
Receipts, Miscellaneous.....	7,119 09	
Total receipts.....		\$83,616 00

### DISBURSEMENTS.

Paid for Bills Contracted in 1877.....	\$13,296 43	
Paid for Running the Outdoor Relief Department... ..	82,356 37	
Paid for Running the Infirmary. . . . .	16,514 37	
Paid for Improvements . . . . .	1,807 00	
Balance on Hand January 1, 1878.....	19,630 83	
Total . . . . .		\$83,616 00

Applicants Relieved in 1877, Total Number.....	2,825	
Applicants Relieved in 1878, Total Number.....	1,894	
Decrease in 1878.....		931

Total Admitted into the Infirmary in 1877.....	430	
Total Number Admitted into the Infirmary in 1878....	326	
Decrease in 1878.....		113

Total Number Relieved by Outdoor Relief in 1877. ....	2,388	
Total Number Relieved by Outdoor Relief in 1878 ....	1,568	
Decrease in 1878.....		818

The total number relieved by outdoor relief during the year, including the children, was 6,006; of this number 499 were widows, 155 lone men and women, 808 were men representing families, and the remainder, 4,564, were children.

#### RELIEF DISBURSED.

During the year the applicants for outdoor relief received 25,868 pounds of beans, 97,171 pounds of cornmeal, 3,131 pounds of coffee, 289,492 pounds of flour, 2,000 pounds of oatmeal, 2,400 pounds of salt pork, 3,650 pounds of peas, 3,240 pounds of potatoes, 7,860 pounds of rice, 3,096 pounds of sugar, 2,539 pounds of tea, 84 orders for fresh meat, 366 pairs of shoes, 3,290 tons of coal, 822 passes for transportation, 118 orders for burial. It required 38,500 paper bags to prepare the groceries and provisions for delivery.

The total number of orders issued for work to the applicants for outdoor relief was 835. The orders called for one, two and

three day's work. Of this number 282 were returned signed by the Steward of the Infirmary, which certified that the applicant had worked as required by the order. The applicants who returned these orders performed 725½ days' work, for which they received coal and groceries at cost price, valued at \$495 15. The rules require the applicant to work one day for groceries and three days for one ton of coal, and are to receive from seventy-five cents to one dollar per day. The applicants were employed to assist in the erection of the new barn and ice-house, cutting ice, and chopping wood on the Infirmary farm. The barn is 32x52 in size, and has room for eight horses. The total cost of the same was \$1,692 82. \$125 00 of this amount were paid for plans and specification, and superintending the work; \$1,037 50 were paid to contractors for the mason and brick work; \$120 00 to contractors for doors and windows and frames; \$369 75 was paid for lumber, and \$40 57 was expended for miscellaneous purposes. The ice-house is 26x20 feet, capacity 200 tons, and contains a large cooling room. It was built at the cost of material only. No skilled labor was employed on either structure, and it is estimated that these improvements, if completed by contract, could not have been less than \$2,600 00.

Respectfully submitted,

JAMES CHRISTIAN,

*Superintendent.*



TABLE No. 2.  
SHOWING THE NUMBER OF APPLICANTS RELIEVED IN 1877 AND 1878, AND THE REDUCTION IN  
EACH WARD MADE IN 1878.

	WARDS.																		Total.	Total Reduct'n.
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18		
1877-1878.																				
Number of Applicants, 1877.....	252	69	72	125	238	210	206	289	75	102	159	116	110	149	42	34	41	97	2386	
Number of Applicants, 1878.....	160	48	42	122	203	150	103	153	53	79	82	71	50	68	42	32	29	76	1568	
Reduction in 1878.....	92	21	30	3	35	60	103	141	22	23	77	46	60	81	00	2	12	21	....	818

Respectfully submitted,  
JACOB BLUIM, Clerk.

STEWARD'S ANNUAL REPORT.

Following is the Annual Report of the Steward of the City Infirmary for the year ending December 31, 1878:

	Male.	Female	Total.
Number of Inmates Remaining Dec. 31, 1877..	166	106	272
Number of Inmates Admitted During the Year.....	200	126	326
Number of Inmates Born During the Year.	3	10	13
Total .....	369	242	611

	Male.	Female	Total.
Number of Inmates Discharged During the Year.....	168	119	287
Number of Inmates Died During the Year.....	30	15	45
Number of Inmates Remaining Dec. 31, 1878.....	171	107	278
Total.....	369	242	611

Average Weekly Number ..... 268

INSANE AND IDIOTIC.

Total Number of Insane and Idiotic, January 1, 1879.....	121
Children Under 12 Years of Age.....	6



HOSPITAL.

	Malc.	Female	Total.
Number Remaining in Hospital Dec. 31, 1877.....	25	20	45
Average Weekly Number .....	28	17	45
Total Number Remaining Dec. 31, 1878.....	30	21	51

NATIVITY.

United States,.....	170	Norway,.....	4
Ireland,.....	195	Poland,.....	4
England,.....	67	Scotland,.....	8
Bohemia,.....	7	Russia,.....	2
Canada,.....	20	Isle of Man,.....	2
France, .....	3	Sweden,.....	2
Germany, .....	119	Unknown,.....	3
Holland, .....	5	Total,.....	611

## OCCUPATION.

Ship carpenter,.....	15	Stone masons,.....	8
House carpenters,.....	14	Bricklayers, .....	8
Bakers, .....	5	Laborers,.....	175
Butchers,.....	5	Pedlers,.....	6
Blacksmiths,.....	15	Sailors,.....	25
Bartenders,.....	10	Teamsters, .....	12
Brewers, .....	2	Painters,.....	15
Engineers,.....	7	Printers, .....	5
Coopers,.....	10	Upholsters,.....	4
Cooks, .....	10	Cigar makers, .....	2
Clerks, .....	5	Moulders, .....	3
Dressmakers, .....	15	Wagonmakers,.....	4
Servants,.....	75	Druggists,.....	2
Farmers,.....	12	Roofers,.....	2
Tailors, .....	5	Whitewashers,.....	2
Weavers,.....	5	Unknown,.....	88
Wash women,.....	20		
Gardeners, .....	20	Total .....	611

The following articles were made by the inmates at the City Infirmary at the cost of material only:

One heavy two-horse farm wagon, one double set of harrows, 24 wooden bedsteads, 125 night pails, 40 water pails, 35 wash tubs, 75 pairs of shoes, 70 coffins. All clothing and bedding necessary for the inmates, all repairing of shoes and clothing, and all blacksmithing except horse-shoeing. A new ice-house 26x20. Iron guards have been made and put on 86 basement windows of the insane and hospital wings. The usual repairing, such as relaying floors, painting and whitewashing. There were ninety-five cords of wood cut. The teams hauled 500 tons of coal, 230 loads of manure, 95 cords of wood, 160 tons of ice,

and hauled all the lumber to the farm for the new barn and ice-house, and did all expressing for the Infirmary, together with more farm work than has ever before been accomplished on the farm.

PRODUCE OF THE FARM.

Apples, 300 bushels at 30c.,.....	\$	90 00
Beans, 55 bushels at \$1 50.....		82 50
Beets, 140 bushels at 35c.....		49 00
Corn, 2,434 bushels at 35c.....		852 90
Carrots, 205 bushels at 35c.....		61 75
Cabbage, 5,000 heads at 3c.....		150 00
Cornstalks, 35 acres at \$5 00,.....		175 00
Hay, 15 tons at \$11 00,.....		160 00
Oats, 444 bushels at 25c.....		111 00
Onions, 240 bushels at 30c.....		72 00
Potatoes 2,389 bushels at 65c.....		1,552 85
Parsnips, 100 bushels at 35c.....		35 00
Pasture, 15 acres at \$6 00.....		90 00
Pumpkins, 24 loads at \$2 00.....		48 00
Pork, 10,011 pounds at 4c.....		400 44
Straw, 11 acres at \$5.00.....		55 00
Turnips, 1040 bushels at 35c.....		364 00
Vegetables and small fruit,.....		150 00
Wheat, 190 bushels at \$1 00 ...		190 00
		<hr/>
Total, .....		\$4,689 44

STOCK ON THE FARM.

Bull,.....1	Poultry,.....60
Cows,.....8	Pigs, (store) .....20
Calves,.....3	Swine, (feeding).....10
Horses, .....5	Sows (breeding).....5

## WAGONS, TOOLS AND IMPLEMENTS.

Farm wagons, 3; market wagon, 1; ambulance, 1, and a large stock of tools and implements.

The health of the inmates has been good considering the class admitted. There has been a large number of sick admitted, but the majority of the total number has come to the Infirmary to spend the remainder of their days.

In conclusion allow me to call your attention to the need of another fire alarm-box near the Infirmary to be used in case of fire in the vicinity of the Infirmary. It is highly important that the public should know when there is a fire at the Infirmary, but at present none would know that the building was the Infirmary was the building on fire until their arrival. This could be avoided by placing another box in the vicinity of the Infirmary grounds so that the box on the Infirmary would be used by the Steward and his Assistants only. At an Institution of this kind there is constant danger of fire. The necessity for this precaution is apparent and I trust it will receive your immediate attention.

The total expenditures for the year exclusive of permanent improvements was \$16,514 37.

The average cost of keeping each inmate per week was 1 23.9.

Respectfully submitted,

THOMAS ROME,

*Steward of City Infirmary.*

# Report of Infirmary Physician.

*To the Board of Infirmary Directors :*

GENTLEMEN;—I respectfully submit the following report for the year ending December 31, 1878:

**REPORT OF SERVICE FROM APRIL 20 to DECEMBER 31, 1878.**

	Male	Female	Total.
Number of Patients in Hospital April 20, 1878 . . . . .	30	18	48
Number of Patients Admitted from April 20 to December 31, 1878.....	85	51	136
Number of Births from April 20 to December 31, 1878....	2	7	9
Total Number Treated . . . . .	117	76	193

	Male.	Female	Total.
Discharged, Cured or Improved . . . . .	71	46	117
Deaths in Hospital from April 20 to December 31, 1878... ..	18	8	26
Still Born in Hospital from April 20 to Dec. 31, 1878.....		1	1
Remaining in Hospital December 31, 1878..	28	21	49
Total . . . . .	117	76	193

Weekly Average, 45.  
Number of Deaths in Insane Department, 6.

**REPORT FOR THE YEAR, INCLUDING SERVICE OF DR. ARMSTRONG,  
FROM DECEMBER 31, 1877, TO APRIL 20, 1878.**

	Male.	Female	Total.
Number Treated in Hospital During the Year 1878. ....	130	107	246
Number Discharged, Cured or Improved During Year..	87	76	163
Number of Births During the Year.....	3	10	13
Number of Deaths in Hospital During the Year.....	24	9	33
Number of Deaths in Insane Dep't During Year... ..	6	6	12
Total Number of Deaths in Hospital and Insane Dep't..	30	15	45

**CAUSES OF DEATH.**

	Male.	Female	Total.
Consumption .....	11	4	15
Syphilis.....	2		2
Cancer.....		1	1
Paralysis .....	1		1
Heart Disease....		1	1
Brain Disease.....	4	3	7
Inflammation of Lungs.....	1		1
Bright's Disease.....	1		1
Bronchitis.....	1		1
Inflammation of Bowels.....	3	1	4
General Debility.....	1	1	2
Old Age.....	2	2	4
Dropsy .....		1	1
Accident.....	1		1
Abortion .....		1	1
Chronic Diarrhea .....	2		2
Total.....	30	15	45

The above tables refer to cases treated in the hospital only, and do not include the inmates of the insane and other departments of the Infirmary who are treated at the dispensary office. Of this class the weekly average treated during the year was thirty, of which number eighteen were males and twelve were females.

There has been no epidemic outbreak whatever during the year, which bespeaks credit to the location and scrupulous management of an institution containing an average of nearly three hundred inmates of all ages and degrees of infirmity.

While I have not thought it expedient to cumber this report by a technical classification of all the cases treated, I may say there has been somewhat the same variety usually found in hospitals.

As may naturally be surmised of an institution caring exclusively for the poor, we find among the worthy, made destitute by misfortune, many wretched by vice and intemperance. So that an analysis of the cases found here would show an unpleasant array of those diseases which legislation and sanitary measures have thus far failed to lessen.

But however unpopular the opinion, I venture the belief that the day will come when a wise and circumspective license system, covering more ground than is usually discussed in public, will render less frequent the repugnant sights and tasks of the physician.

The hospitals and insane departments here afford an interesting field of work and study for the physician and surgeon, and I have found my term of service, thus far, a valuable experience.

I wish to add my acknowledgment of the pleasant and cordial support which I have received at the hands of the Board and officers of the Infirmary; also of the efficient assistance of the apothecary and the several nurses, who, as I can bear testimony, have done their duties well.

B. W. HOLLIDAY, M. D.,  
*Infirmary Physician.*





ANNUAL REPORT

OF THE

Board of Cemetery Trustees

TO THE

CITY COUNCIL,

FOR THE YEAR ENDING DEC. 31, 1878.

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TRUSTEES:

|               |   |   |   |            |
|---------------|---|---|---|------------|
| W. E. CLARKE, | - | - | - | PRESIDENT. |
| JAS. PARKER,  | - | - | - | TREASURER. |
| E. H. THIES.  |   |   |   |            |

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L. W. BAILEY. *Secretary.*



*To the Honorable City Council of Cleveland, Ohio:*

GENTLEMEN:—I have the honor to present your Honorable Body with the Annual Report of this Board for the year 1878:

Respectfully yours,

L. W. BAILEY,

*Secretary.*



# REPORT OF CEMETERY TRUSTEES.

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CLEVELAND, January 1st, 1879.

*To the Honorable City Council:*

GENTLEMEN:—The undersigned Trustees of Cemeteries respectfully submit herewith our Annual Report for the year 1878:

The term of Trustee A. B. Halliwell expired in April last and at the municipal election on the first Monday in April Mr. James Parker was elected for three years.

At the first meeting (after said election), which occurred in May, the Board organized as follows: Trustee W. E. Clarke was elected Chairman; Trustee James Parker, Treasurer; and Mr. L. W. Bailey, Secretary, at a salary of \$100 per year.

It will be seen on examination of the Report of Finances, that owing to no levy being made in 1877 for cemetery purposes the Board are still obliged to continue the practice of paying running expenses out of the fund arising from sale of lots. If this had not been the case we should have in that fund \$7,890 95 instead of \$2,430 62, the amount now in that fund.

The cemeteries have been carried on during the past year with the closest economy and the result is a large reduction of expenditures below those of 1877. This reduction amounts to \$6,630 92. The receipts were less than those of 1877 by \$822 93.

A levy was made last year for Cemetery purposes to clear from the Auditors' books some special taxes standing against the Cemeteries. As the expenses over receipts for services and vault fees will not be any less the coming year than they were last, the Board would respectfully recommend a levy sufficient to place the amount of that excess to the credit of the Cemetery fund; that amount as may be seen in the tables is \$5,460 33.

Very little unoccupied ground remains at Monroe Street Cemetery and the Board have been obliged to prohibit burials on Infirmary orders there. This makes it necessary for all such to go to Woodland Cemetery from the west side of the river. More land is an absolute necessity on that side of the river, and it can now be had very cheaply. We would recommend that a Committee be appointed to confer with this Board in reference to the purchase of a piece of land adjoining Monroe Street Cemetery or elsewhere on the West Side. We would also recommend the appointment of a standing Committee on Cemeteries, to whom might be referred any matters pertaining to the same.

For the protection of the Cemeteries against body stealing the Board would recommend that there be established a Morgue in connection with the Police Department, where all bodies of unknown persons might be taken for recognition, and if not recognized, turned over to the Medical College, in accordance with the laws of the State. The law now says "*may*" be so delivered; now let your Honorable Body say that they "*shall*," then we will be relieved from a constant fear that graves are being robbed. It is not known that any body has been taken from any of the Cemeteries during the past year, but one, which was returned. A bold attempt was made last Fall to take the body of a prominent citizen from the vault at Erie Street Cemetery, which was frustrated by the vigilance of the watchman. That vault has since been made so secure, that another attempt of this kind could not easily succeed.

The Board herewith submit the tabulated statements of business done with receipts and expenditures; and would here make honorable mention of all the officers and employes of this Board. Where all have done so well, it would be invidious to mention any one in particular.

The revised statutes require that a plat of the Cemeteries shall be kept in the office of the City Clerk. These plats are very expensive, and it is absolutely necessary that one copy shall be kept at the Cemeteries. To make another would involve a large outlay, which the Board hesitate to incur without the positive order of the Council.

Respectfully,

W. E. CLARKE,

E. H. THIES,

JAMES PARKER,

*Cemetery Trustees.*

L. W. BAILEY, *Secretary.*

The interments during the year have been as follows :

| CEMETERIES.           | ADULTS. |        | MINORS. |        | TOTAL. |
|-----------------------|---------|--------|---------|--------|--------|
|                       | Male.   | Female | Male.   | Female |        |
| Woodland Avenue. .... | 125     | 173    | 216     | 209    | 723    |
| Erie Street.....      | 37      | 25     | 50      | 45     | 157    |
| Monroe Street....     | 94      | 73     | 97      | 63     | 327    |
| Eighteenth Ward.....  | 14      | 14     | 26      | 16     | 70     |
| Total....             | 270     | 285    | 389     | 333    | 1,277  |

The lots sold in the City Cemeteries were as follows :

| CEMETERIES.          | No.<br>Sold. | Price.      | Cash.       | Credit.     |
|----------------------|--------------|-------------|-------------|-------------|
| Wooland Auenue.....  | 43¼          | \$3,263 90  | \$ 1,836 90 | \$ 1,427 00 |
| Erie Street.....     | *31          | 96 00       | 82 00       | 14 00       |
| Monroe Street... ..  | 6¾           | 1,315 00.   | 575 00      | 740 00      |
| Eighteenth Ward..... | 7            | 125 00      | 103 00      | 22 00       |
| Total.....           | 88¼          | \$ 4,799 90 | \$ 2,596 90 | \$ 2,203 00 |

\*These were single grave spaces, as were also some of those in Monroe street.



WOODLAND CEMETERY RECEIPTS.

| FROM WHAT SOURCE RECEIVED. | January. | February. | March.   | April.   | May.     | June.    | July.    | August.  | September. | October. | November. | December. | Total.     |
|----------------------------|----------|-----------|----------|----------|----------|----------|----------|----------|------------|----------|-----------|-----------|------------|
| Sale of Lots.              | \$142 78 | \$223 50  | \$323 00 | \$357 00 | \$336 87 | \$483 57 | \$339 00 | \$482 00 | \$359 14   | \$509 37 | \$485 65  | \$162 00  | \$4,308 88 |
| Services and Vault Fees    | 351 13   | 281 75    | 372 00   | 442 50   | 420 35   | 391 00   | 327 20   | 303 75   | 310 50     | 442 75   | 389 35    | 301 33    | 4,313 61   |
| Total Receipts.....        | \$493 91 | \$515 25  | \$700 00 | \$799 50 | \$817 22 | \$874 57 | \$666 20 | \$785 75 | \$689 64   | \$952 12 | \$855 00  | \$463 33  | \$8,622 49 |

WOODLAND CEMETERY EXPENDITURES.

| FOR WHAT PURPOSE EXPENDED. | January. | February. | March.   | April.   | May.     | June.    | July.    | August.  | September. | October. | November. | December. | Total.     |
|----------------------------|----------|-----------|----------|----------|----------|----------|----------|----------|------------|----------|-----------|-----------|------------|
| Pay Roll..                 | \$233 45 | \$267 58  | \$401 58 | \$532 75 | \$674 82 | \$577 61 | \$619 99 | \$600 00 | \$494 64   | \$497 41 | \$428 24  | \$325 92  | \$5,704 30 |
| Improvements               |          |           |          | 46 00    | 43 16    | 49 70    | 10 15    | 49 40    | 32 86      | 19 35    |           |           | 250 62     |
| Current Expenses.....      | 118 45   | 104 96    | 41 59    | 222 65   | 107 95   | 57 22    | 31 74    | 25 20    | 34 90      | 104 39   | 159 78    | 25 46     | 1,034 28   |
| Total Expenses .....       | \$411 90 | \$372 54  | \$443 17 | \$791 40 | \$825 93 | \$684 53 | \$661 88 | \$675 00 | \$562 40   | \$621 15 | \$588 02  | \$351 38  | \$6,989 30 |

ERIE STREET CEMETERY RECEIPTS.

| FROM WHAT SOURCE RECEIVED.   | January. | February. | March.   | April.    | May.      | June.    | July.     | August.   | September. | October. | November. | December. | TOTAL.      |
|------------------------------|----------|-----------|----------|-----------|-----------|----------|-----------|-----------|------------|----------|-----------|-----------|-------------|
| Sale of Lots .....           |          |           | \$ 5 00  | \$ 7 50   | \$ 9 00   | \$ 7 50  | \$ 17 50  | \$ 19 00  | \$ 4 00    | .....    | \$ 2 50   | \$ 5 00   | \$ 77 00    |
| Services and Vault Fees..... | \$ 60 25 | \$ 48 00  | 72 25    | 123 00    | 94 00     | 40 25    | 116 00    | 101 63    | 126 50     | \$ 72 50 | 49 50     | 58 25     | 962 13      |
| Total Receipts.....          | \$ 60 25 | \$ 48 00  | \$ 77 25 | \$ 120 50 | \$ 103 00 | \$ 47 75 | \$ 133 50 | \$ 120 63 | \$ 130 50  | \$ 72 50 | \$ 52 00  | \$ 63 25  | \$ 1,039 13 |

ERIE STREET CEMETERY EXPENDITURES.

| FOR WHAT PURPOSE EXPENDED. | January.  | February. | March.    | April.    | May.      | June.     | July.     | August.   | September. | October.  | November. | December. | TOTAL.      |
|----------------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|------------|-----------|-----------|-----------|-------------|
| Pay Roll.. ..              | \$ 111 25 | \$ 98 75  | \$ 110 00 | \$ 142 25 | \$ 175 94 | \$ 133 07 | \$ 138 38 | \$ 156 32 | \$ 160 24  | \$ 163 06 | \$ 112 52 | \$ 118 25 | \$ 1,620 03 |
| Improvements .....         |           |           |           |           |           |           |           |           |            | 31 04     | 3 53      | .....     | 34 57       |
| Current Expenses.....      | 24 48     | 12 00     | 16 65     | 49 37     | 14 00     | 14 98     | 10 47     | 5 50      | 18 90      | 16 10     | 7 60      | 90        | 190 86      |
| Total Expenses.....        | \$ 135 73 | \$ 110 75 | \$ 126 65 | \$ 191 62 | \$ 189 94 | \$ 148 05 | \$ 148 85 | \$ 161 82 | \$ 179 14  | \$ 210 20 | \$ 123 65 | \$ 119 15 | \$ 1,845 55 |

MONROE STREET CEMETERY RECEIPTS.

| FROM WHAT SOURCE RECEIVED.   | January.  | February. | March.    | April.    | May.      | June.     | July.     | August.   | September. | October.  | November. | December. | TOTAL.      |
|------------------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|------------|-----------|-----------|-----------|-------------|
| Sale of Lots.....            | \$ 191 50 | \$ 126 25 | \$ 129 00 | \$ 145 50 | \$ 129 75 | \$ 121 50 | \$ 83 50  | \$ 159 00 | \$ 118 50  | \$ 341 00 | \$ 165 00 | \$ 212 50 | \$ 1,923 00 |
| Services and Vault Fees..... | 53 50     | 75 25     | 62 50     | 134 75    | 120 00    | 206 25    | 89 50     | 116 24    | 17 00      | 90 00     | 91 00     | 89 50     | 1,227 49    |
| Total Receipts.              | \$ 245 00 | \$ 201 50 | \$ 191 50 | \$ 280 25 | \$ 249 75 | \$ 329 75 | \$ 173 00 | \$ 275 24 | \$ 215 50  | \$ 431 00 | \$ 256 00 | \$ 302 00 | \$ 3,150 49 |

MONROE STREET CEMETERY EXPENDITURES.

| FOR WHAT PURPOSE EXPENDED. | January.  | February. | March.    | April.    | May.      | June.     | July.     | August.   | September. | October.  | November. | December. | TOTAL.      |
|----------------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|------------|-----------|-----------|-----------|-------------|
| Pay Roll.....              | \$ 165 88 | \$ 151 00 | \$ 206 23 | \$ 256 14 | \$ 239 04 | \$ 280 37 | \$ 233 86 | \$ 306 37 | \$ 269 55  | \$ 285 05 | \$ 182 00 | \$ 169 08 | \$ 2,864 55 |
| Improvements .....         |           |           |           |           |           | 13 60     |           |           |            |           |           |           | 13 00       |
| Current Expenses.....      | 28 60     | 2 80      | 4 54      | 20 65     | 14 94     | 22 08     |           |           |            | 12 80     | 23 34     | 13 30     | 143 15      |
| Total Expenses.....        | \$ 194 48 | \$ 153 80 | \$ 210 77 | \$ 276 79 | \$ 313 98 | \$ 316 05 | \$ 233 86 | \$ 306 37 | \$ 269 55  | \$ 297 85 | \$ 205 34 | \$ 182 38 | \$ 3,021 30 |

EIGHTEENTH WARD CEMETERY RECEIPTS.

| FROM WHAT SOURCE RECEIVED.   | January. | February. | March.  | April.  | May.    | June.   | July.   | August. | September. | October. | November. | December. | TOTAL.    |
|------------------------------|----------|-----------|---------|---------|---------|---------|---------|---------|------------|----------|-----------|-----------|-----------|
| Sale of Lots.....            |          | \$35 00   |         |         | \$15 00 | \$ 8 00 |         | \$20 00 | \$16 50    |          | \$10 00   | \$15 00   | \$ 119 50 |
| Services and Vault Fees..... | \$ 13 00 | 14 00     | \$22 50 | \$41 50 | 19 75   | 15 50   | \$13 00 | 21 00   | 4 00       | \$21 50  | 13 00     | 13 50     | 212 25    |
| Total Receipts. ....         | \$ 13 00 | \$49 00   | \$22 50 | \$41 50 | \$34 75 | \$23 50 | \$13 00 | \$41 00 | \$20 50    | \$21 50  | \$23 00   | \$28 50   | \$ 331 75 |

EIGHTEENTH WARD CEMETERY EXPENDITURES.

| FOR WHAT PURPOSE EXPENDED. | January. | February. | March.  | April.  | May.    | June.   | July.   | August. | September. | October. | November. | December. | TOTAL.    |
|----------------------------|----------|-----------|---------|---------|---------|---------|---------|---------|------------|----------|-----------|-----------|-----------|
| Pay Roll.....              | \$40 00  | \$40 00   | \$40 00 | \$40 00 | \$40 00 | \$40 00 | \$40 00 | \$40 00 | \$40 00    | \$40 00  | \$40 00   | \$40 00   | \$ 480 00 |
| Improvements .....         |          |           |         |         |         |         |         |         |            |          |           |           |           |
| Current Expenses.....      | 1 15     |           |         | 1 15    |         |         |         | 1 00    | 1 25       |          |           |           | 4 55      |
| Total Expenses.....        | \$41 15  | \$40 00   | \$40 00 | \$41 15 | \$40 00 | \$40 00 | \$40 00 | \$41 00 | \$41 25    | \$40 00  | \$40 00   | \$40 00   | \$ 484 55 |

RECAPITULATION.

| CEMETERIES.                        | RECEIPTS.   | EXPENSES.   | EXCESS.    | DEFICIT.   |
|------------------------------------|-------------|-------------|------------|------------|
| Woodland.....                      | \$8,622 49  | \$6,989 30  | \$1,633 19 |            |
| Erie Street.....                   | 1,039 13    | 1,845 55    |            | \$806 42   |
| Monroe Street.....                 | 3,150 49    | 3,021 30    | 129 19     |            |
| Eighteenth Ward. ....              | 331 75      | 484 55      |            | 152 80     |
| Interest on Deposits.....          | 89 08       |             | 89 08      |            |
| Amount Paid for General Bills..... |             | 133 90      |            | 133 90     |
| Total .....                        | \$13,232 94 | \$12,474 60 | \$1,851 46 | \$1,093 12 |

|                                       |            |             |
|---------------------------------------|------------|-------------|
| Receipts from all Sources.....        |            | \$13,232 94 |
| Total Expenses.....                   |            | 12,474 60   |
| Excess of Receipts over Expenses..... |            | \$ 758 34   |
| Total Excess.....                     | \$1,851 46 |             |
| Total Deficit.....                    | 1,093 12   |             |
| Net Excess for 1878.....              |            | \$ 758 34   |

## TREASURER'S SUMMARY.

|                                     |             |             |             |
|-------------------------------------|-------------|-------------|-------------|
| Amount on hand January 1, 1878..... |             |             | \$ 1,672 28 |
| <i>Received from Sale of Lots:</i>  |             |             |             |
| Woodland Cemetery.....              | \$4,308 88  |             |             |
| Erie Street ".....                  | 77 00       |             |             |
| Monroe Street ".....                | 1,923 00    |             |             |
| Eighteenth Ward Cemetery.....       | 119 50      |             |             |
| Total from Sale of Lots. ....       |             | \$ 6,428 38 |             |
| <i>Received from Vault Fees:</i>    |             |             |             |
| Woodland Cemetery.....              | \$ 457 28   |             |             |
| Erie Street ".....                  | 166 25      |             |             |
| Monroe Street ".....                | 156 63      |             |             |
| Eighteenth Ward Cemetery.....       | 23 00       |             |             |
| Total from Vault Fees.....          |             | 803 14      |             |
| <i>Received for Services:</i>       |             |             |             |
| Woodland Cemetery....               | \$ 3,856 35 |             |             |
| Erie Street ".....                  | 795 88      |             |             |
| Monroe Street ".....                | 1,070 86    |             |             |
| Eighteenth Ward Cemetery.....       | 189 25      |             |             |
| Total for Services.....             |             | 5,912 34    |             |
| Interest on Deposits.....           |             | 89 08       |             |
| Total Receipts.....                 |             |             | 13,232 94   |
| Grand Total.....                    |             |             | \$14,905 22 |

## TREASURER'S SUMMARY—CONTINUED.

|                                                    |             |           |             |
|----------------------------------------------------|-------------|-----------|-------------|
| Amount Brought Forward.....                        |             | .         | \$14,905 22 |
| <i>Amount Paid for Improvements:</i>               |             |           |             |
| Woodland Cemetery.....                             | \$ 250 62   |           |             |
| Erie Street     "     .....                        | 34 57       |           |             |
| Monroe Street   "     .....                        | 13 60       |           |             |
| Eighteenth Ward Cemetery.....                      |             |           |             |
| Total for Improvements..     .....                 |             | \$ 298 79 |             |
| <i>Amount Paid Pay Rolls and Current Expenses:</i> |             |           |             |
| Woodland Cemetery.....                             | \$ 6,738 68 |           |             |
| Erie Street     "     .....                        | 1,810 98    |           |             |
| Monroe Street   "     .....                        | 3,007 70    |           |             |
| Eighteenth Ward Cemetery.....                      | 484 55      |           |             |
| Total Pay Rolls and Current Expenses..     .....   |             | 12,041 91 |             |
| Total.....                                         |             |           | 12,340 70   |
| Balance.....                                       |             |           | \$ 2,564 52 |
| Paid Secretary's Salary, Eight Months.....         |             | \$ 66 65  |             |
| Paid for Printing and General Bills.....           |             | 67 25     |             |
| Total Expended for General Purposes....            |             |           | 133 90      |
| Balance to Credit of Fund Jan. 1, 1879....         |             |           | \$ 2,430 62 |

## TREASURER'S SUMMARY.—CONTINUED.

|                                                                             |           |            |
|-----------------------------------------------------------------------------|-----------|------------|
| Amount to Credit of Fund Arising from Sale of Lots<br>January 1, 1878 ..... |           | \$1,672 28 |
| Received During the Year from Sale of Lots .....                            |           | 6,428 38   |
| Received Interest on Deposits.....                                          |           | 89 08      |
| Total... ..                                                                 |           | \$8,189 74 |
| Expended for Improv'g and Embellish'g the Cemeteries.                       | \$ 298 79 |            |
| Amount Taken from this Fund to Pay Pay Rolls and<br>Current Expenses.....   | 5,460 33  |            |
| Total.. ..                                                                  |           | 5,759 12   |
| Balance Jan. 1, 1879, to Credit of Fund.....                                |           | \$2,430 62 |

|                                                                    |             |             |
|--------------------------------------------------------------------|-------------|-------------|
| Amount to Credit of Fund for General Purposes Jan. 1,<br>1878..... |             | .....       |
| Received for Services and Vault Fees During the Year.              |             | \$ 6,715 48 |
| Received from Fund for Sale of Lots... ..                          |             | 5,460 33    |
| Total. ....                                                        |             | \$12,175 81 |
| Pay Roll and Current Expenses During the Year.....                 | \$12,175 81 |             |
| Balance Jan. 1, 1879, to Credit of General Fund ....               |             | .....       |

It will be seen by an analysis of the foregoing statement that the running expenses (other than for improvements) of the different cemeteries are largely in excess of the receipts for services and vault fees.

|                                                                  |            |
|------------------------------------------------------------------|------------|
| This Excess in the Case of the Woodland Cemetery is .....        | \$2,425 07 |
| This Excess in the Case of the Erie Street Cemetery is.....      | 848 85     |
| This Excess in the Case of the Monroe Street Cemetery is.....    | 1,780 21   |
| This Excess in the Case of the Eighteenth Ward Cemetery is. .... | 272 30     |
| Total.....                                                       | \$5,326 43 |
| Add to this the Amount Expended for General Bills .....          | 133 90     |
| Total Excess of Expenses of....                                  | \$5,460 33 |

over the receipts of the cemeteries applicable to this purpose.











